

# Stephanie T. Lanza, PhD

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## Current Academic Position: The Pennsylvania State University

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2023- Edna P. Bennett Faculty Fellow in Prevention Research  
2016- *Professor*, Biobehavioral Health  
2016- *Professor*, Human Development and Family Studies (courtesy appointment)

## Education

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2003 **Ph.D.** Human Development and Family Studies, The Pennsylvania State University  
2002 **M.A.S.** Applied Statistics, The Pennsylvania State University  
1998 **M.S.** Human Development and Family Studies, The Pennsylvania State University  
1992 **B.S.** Mathematical Science, Statistics Option, The University of North Carolina at Chapel Hill  
1992 **B.A.** Psychology, The University of North Carolina at Chapel Hill

## Research Interests and Collaborative Skills

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I am a **substance use researcher with a specialization in quantitative methods**. My scientific program advances the field of prevention science through the advancement and application of innovative quantitative methods. This work includes extending latent class analysis so that researchers can discover hidden subgroups in their data and understand antecedents and consequences of their membership and translating time-varying effect modeling, which has been described in the statistical literature, for behavioral scientists and solving problems that arise in its application. These models enable scientists to examine regression coefficients as a continuous function of age or time, often using intensive longitudinal data. I believe that (a) new methods for analyzing existing data hold enormous potential to unlock critical scientific knowledge, and (b) this potential will not be realized until behavioral and health scientists begin to assimilate and apply them in their research. This philosophy is evidenced by the extensive network of collaborators I have built, which includes statisticians, developmentalists, engineers, psychologists, and psychiatrists, and by my commitment to the dissemination of new methods to behavioral and health scientists everywhere.

I also am a devoted **research administrator**, having held leadership positions in vibrant NIH-funded centers continuously since 2004. This includes serving as the scientific director of The Methodology Center, a NIDA-funded National Center of Excellence, from 2004-2017. During these years I supervised many aspects of Center activities, including research communication and website development, professional development activities, a seed grant program, and the development of software products built in SAS Toolkit, Java, R, and Fortran. From 2017-2023, I served as the director of the Edna Bennett Pierce Prevention Research Center, an interdisciplinary unit with 50 full-time employees, external grants from 18 national institutes, foundations, or government agencies, and an annual budget of approximately \$13M. Additionally, from 2018-2021 I was appointed as the inaugural director of Penn State's Consortium to Combat Substance Abuse. I led this University-wide Consortium to coordinate 12 faculty searches, administer a seed grant program and a Community Fellows program, organize annual conferences, and more.

## Honors and Awards

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2017-2023 C. Eugene Bennett Chair in Prevention Research  
2020-2021 Selected Participant, "Changing the Future for Women at Penn State" Leadership Program  
2015-2018 Elected Member, Society for Prevention Research Board of Directors  
2012-2016 Associate Editor, *Prevention Science*  
2014 Society for Prevention Research Friend of ECPN Mentoring Award  
2008 Society for Prevention Research Early Career Award  
2001-2002 Penn State: Health and Human Development Endowed Graduate Fellowship

## Previous Positions

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2017-2023 Director, Edna Bennett Pierce Prevention Research Center  
2018-2021 Penn State: Inaugural Director, Consortium to Combat Substance Abuse  
2004-2017 Penn State: Scientific Director, The Methodology Center  
2011-2015 Penn State: Research Associate Professor, Health and Human Development  
2014-2015 Penn State: Acting Director, The Methodology Center  
2009-2011 Penn State: Senior Research Associate, The Methodology Center  
2004-2009 Penn State: Research Associate, The Methodology Center  
2003-2004 The University of North Carolina at Chapel Hill: Assistant Professor of Psychology and Investigator, FPG Child Development Institute  
2001-2004 Tobacco Etiology Research Network (TERN): Project Statistician  
1996-2002 The Pennsylvania State University: Graduate Research Assistant, The Methodology Center  
1995-1996 Glaxo-Wellcome Pharmaceuticals, Cary, NC: Statistical Programmer  
1992-1995 FGI Inc. Marketing Research, Chapel Hill, NC: Data Analyst

## Research Support

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### Active

#### Principal Investigator (NIH/NIDA R01 DA057588)

*Promoting Rapid Uptake of Multilevel Latent Class Modeling via Best Practices: Investigating Heterogeneity in Daily Substance Use Patterns*

Project dates: 7/15/2023-4/30/2028

\$3,399,746

#### Multiple-Principal Investigator (NIH/NIDA T32 DA017629; J. Maggs, MPI)

*Prevention and Methodology Training (PAMT) Program*

Project dates: 7/1/2021-6/30/2026

\$9,228,291

#### Principal Investigator (Penn State University Strategic Initiative)

*Penn State Project CORE (College Relationships and Experiences)*

Project dates: 7/1/2022-6/30/2027

\$556,000

#### Co-Principal Investigator (Hillman Family Foundations; G. Fosco, Co-PI)

*Adolescent Risk for Opioid Initiation: Family and Contextual Factors in Daily Life*

Project dates: 1/1/2020-12/31/2024

\$400,000

#### Investigator (NIH/NHLBI R01 HL158577; PI: H. Schreier)

*Prospective, Longitudinal Associations Between Child Maltreatment, Immune Function, and Cardiovascular Disease Risk*

Project dates: 1/15/2022-12/31/2025

\$2,420,784

**Primary Sponsor** (NIH/NIDA F31 DA057837; PI: S. Stull)

Ruth L. Kirschstein National Research Service Award

*The Role of Nondrug Reward in Recovery from Opioid Use Disorder: Intrapersonal and Socio-Spatial Contexts in Daily Life*

Project dates: 8/1/2023-7/31/2025

\$77,467

**Primary Mentor** (NIH/NIAAA K01 AA026854; PI: A. Linden-Carmichael)

*Simultaneous Alcohol and Marijuana Use: Momentary Influences and Consequences*

Project dates: 7/1/2018-6/30/2023

\$838,317

**Methodology Mentor** (PI: Maddie Politte-Corn)

Clinical and Translational Science Institute's Translational Research Training (TL1) Fellowship

*Identifying Biomarkers of Social Threat Sensitivity and Unique Neurophysiological Profiles Associated with Internalizing Risk in Adolescents*

Project dates: 7/1/2023-6/30/2024

**Consultant** (NIH/NIDA R01 DA044522; PI: S. Oesterle, University of Washington)

*The interplay of social, normative, and legal marijuana environments and marijuana and ATOD use from late childhood to young adulthood*

Project dates: 7/1/2018-6/30/2023

**Consultant** (NIH/NIMH R44MH112216; Co-PIs: D. Fox, E. Poleshuck, Fox Learning Systems/University of Rochester)

*Development and Randomized Clinical Trial of an App-based Intervention to Reduce Postpartum Depression in High-Risk Women*

Project dates: 3/24/2017-2/28/2025

Role: Data Safety Monitoring Board (DSMB) Member 10/1/2022-2/28/2025

**Completed Research Support (only projects as PI, MPI, or primary mentor listed)**

- 2020-2023 **Primary Mentor** (PI: S. Stull) – National Science Foundation Graduate Research Fellowship: Positive Affect, Dynamic Changes, and Hidden Subgroups in Real Time and Context, \$138,000 (NSF DGE 1255832)
- 2015-2022 **Scientific Director (2015-2020)/Multiple-Principal Investigator (2020-2022)** (Center PI: L. Collins 9/1/2015-1/31/2020, Lanza/Collins MPIs 2/1/2020-8/31/2022) – Center for Complex Data to Knowledge in Drug Abuse and HIV Behavioral Science, \$13,767,158 (P50 DA039838)
- 2015-2022 **Principal Investigator (Scientific Project)** – Center for Complex Data to Knowledge in Drug Abuse and HIV Behavioral Science: Multidimensional and Dynamic Moderation in Drug Abuse and HIV Studies (Center PI: L. Collins 9/1/2015-1/31/2020, Lanza/Collins MPIs 2/1/2020-8/31/2022), NIDA – \$2,434,457 (P50 DA039838)
- 2015-2022 **Principal Investigator/Investigator (Core Project)** – Center for Complex Data to Knowledge in Drug Abuse and HIV Behavioral Science: Pilot, Mentoring, and Professional Development Core (Center PI: L. Collins 9/1/2015-1/31/2020, Lanza/Collins MPIs 2/1/2020-8/31/2022), NIDA – \$1,442,496 (P50 DA039838)
- 2019-2022 **Principal Investigator** – Penn State Cohort Study: To Promote High-Impact Research, Student Engagement, and Health, \$400,000 (Penn State University Strategic Initiative)
- 2020-2021 **Multiple-Principal Investigator** (PI: L. Collins 7/1/2016-12/31/2019; MPI: J. Maggs & S. Lanza 1/1/2020-6/1/2021) – Prevention and Methodology Training (PAMT) Program, \$2,767,158 (T32 DA017629)
- 2020-2022 **Primary Mentor** (PI: A. Hochgraf) – Comorbidity Between Body Dissatisfaction and Substance Use: A Daily Diary Study of Alcohol, Nicotine Vaping, and Cigarette Use Among Young Adults, \$72,888 (F31 DA051118)
- 2020 **Co-Principal Investigator** (PI: P. Griffin) – Solutions for Addiction in Rural Communities (SARC), \$25,000 (College of Engineering ERC Preproposal Seed Grant)
- 2015-2019 **Principal Investigator** – Age-Varying Effects in the Epidemiology of Drug Abuse, \$668,760 (R01 DA039854)

- 2012-2016 **Principal Investigator** – Advancing Tobacco Research by Integrating Systems Science and Mixture Models, \$502,754 (R01 CA168676)
- 2011-2021 **Principal Investigator** (PI through 8/1/17; Co-I thereafter) – Drug Abuse and HIV Prevention Research Methodology Conferences: Summer Institute on Innovative Methods, NIDA - \$250,000 (R13 DA020334)
- 2010-2015 **Principal Investigator (Scientific Project)** – Center for Prevention and Treatment Methodology: Advances in Finite Mixture Modeling for Substance Use and HIV Research (Center PI: Linda Collins), NIDA – \$1,026,901 (P50 DA010075)
- 2010-2015 **Principal Investigator (Core Project)** – Center for Prevention and Treatment Methodology: Software Development and Technology Transfer Core (Center PI: Linda Collins), NIDA – \$1,532,211 (P50 DA010075)
- 2012 **Principal Investigator** – Joint Modeling of the Effects of Substance Use on Changes in CD4 and on Survival Time of Women with HIV, NIDA – \$70,463 (supplement to Women’s Interagency HIV Study Collaboration Grant, U01 AI031834)
- 2005-2010 **Principal Investigator (Core Project)** – Center for Prevention and Treatment Methodology: Software Development Core (Center PI: Linda Collins), NIDA – \$1,078,699 (P50 DA010075)
- 2005-2010 **Principal Investigator** – Drug Abuse Prevention Research Methodology Conferences: Summer Institute on Longitudinal Methods, NIDA – \$125,000 (R13 DA020334)
- 2007-2009 **Principal Investigator** – Identifying Risk Profiles for Substance Use and Comorbid Behavior, NIDA – \$125,730 (R03 DA023032)
- 2005 **Principal Investigator** – An Investigation of Methods for Risk Assessment and Analysis, Social Science Research Institute Seed Grant, The Pennsylvania State University – \$4800

## Publications

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Coauthors: \* Student; \*\* Postdoctoral researcher

### Books

Lanza, S. T., & Linden-Carmichael, A. N. (2021). *Time-varying effect modeling for the behavioral, social, and health sciences*. Springer. doi: 10.1007/978-3-030-70944-0

Collins, L. M., & Lanza, S. T. (2010). *Latent class and latent transition analysis: With applications in the social, behavioral, and health sciences*. New York: Wiley.

### Editor: Journal Special Issue (Peer Reviewed)

Lanza, S. T., Piper, M. E., & Shiffman, S. (Eds.) (2014). New methods for advancing research on tobacco dependence using ecological momentary assessments. *Nicotine and Tobacco Research*, 16 Suppl 2. [Funding for issue provided by NIH National Cancer Institute and Office of Behavioral and Social Science Research.]

### Peer-Reviewed Journal Articles

171. \*\*Hochgraf, A. K., Fosco, G. M., & Lanza, S. T. (in press). Comorbidity between body dissatisfaction and nicotine vaping among young adults in college: A daily diary study. *Journal of American College Health*. PMID: In process
170. \*\*Hochgraf, A. K., Berge, J. M., & Lanza, S. T. (in press). Age-Varying Associations Between Attempts to Change Weight and Suicidal Ideation Among Adolescents in the United States. *Preventive Medicine*. PMID: In process
169. Evans-Polce, R. J., Maggs, J. L., Lanza, S. T., & Patrick, M. E. (in press). Negative consequences associated with daily alcohol use as a nonlinear function of number of drinks in a daily diary study. *Drug and Alcohol Dependence*. PMID: In process
168. \*Mendu, S., Doyle Fosco, S. L., Lanza, S. T., & Abdullah, S. (in press). Designing Voice Interfaces to Support Mindfulness-Based Pain Management. *Digital Health*. doi: 10.1177/20552076231204418 PMID: In process

167. \*\*Rahal, D., Linden-Carmichael, A. N., & **Lanza**, S. T. (in press). Affect variability in relation to alcohol use frequency, intensity, and concurrent cannabis use among college students during the COVID-19 pandemic. *Addiction Research & Theory*. doi: 10.1080/16066359.2023.2284209 PMID: In process
166. \*Sloan, C. J., Forrester, E. J., **Lanza**, S. T., Feinberg, M. E., & Fosco, G. M. (in press). Examining Profiles of Convergence and Divergence in Reports of Parental Warmth: Links to Adolescent Developmental Problems. *Development and Psychopathology*. PMID: In process
165. \*Stull, S. W., Linden-Carmichael, A. N., Scott, C. K., Dennis, M. L., & **Lanza**, S. T. (2023). Time-varying effect modeling with intensive longitudinal data: Examining dynamic links among craving, affect, self-efficacy, and substance use during addiction recovery. *Addiction*, *118*, 2220-2232. doi: 10.1111/add.16284 PMID: In process [Commissioned paper]
164. Coyne, K. S., Barsdorf, A. I., Mazière, J.-Y., Pierson, R. F., **Lanza**, S. T., Farrar, J. T., Gelfand, H., Porter, L. N., Schnoll, S. H., & Butler, S. F. (2023). Identification of prescription opioid misuse and abuse behaviors and risk factors in chronic pain patients using the Prescription Opioid Misuse and Abuse Questionnaire (POMAQ). *Current Medical Research and Opinion*, *39*, 441-450. doi: 10.1080/03007995.2023.2174343 PMID: In process
163. Bray, B. C., \*Layland, E. K., \*Stull, S. W., Vasilenko, S. A., & **Lanza**, S. T. (2022). Estimating the effects of a complex, multidimensional moderator: An example of latent class moderation to examine differential intervention effects of substance use services. *Prevention Science*, *24*, 493-504. doi: 10.1007/s1121-022-01448-3. PMID: In process
162. \*\*Cloutier, R. M., Calhoun, B. H., **Lanza**, S. T., & Linden-Carmichael, A. N. (2022). Assessing subjective cannabis effects in daily life with contemporary young adult language. *Drug and Alcohol Dependence*, *230*(1), 109205. doi: 10.1016/j.drugalcdep.2021.109205. PMID: PMC8714699
161. Gopalan, M., Linden-Carmichael, A. N., & **Lanza**, S. T. (2022). College students' sense of belonging and mental health amidst the COVID-19 pandemic. *Journal of Adolescent Health*, *70*(2), 228-233. doi: 10.1016/j.jadohealth.2021.10.010. PMID: PMC8741285
160. \*Hochgraf, A. K., Fosco, G. M., & **Lanza**, S. T. (2022). Age-varying associations between attempts to lose weight and nicotine vaping across adolescence: Results from a nationally representative sample. *Journal of Adolescent Health*. Advance online publication. doi: 10.1016/j.jadohealth.2022.10.009 PMID: In process
159. \*Kunchay, S., Linden-Carmichael, A. N., **Lanza**, S., & Abdullah, S. (2022). Understanding design approaches and evaluation methods in mHealth applications targeting substance use: Protocol for a systematic review. *Journal of Medical Internet Research Protocols*, *11*(7), e35749. doi: 10.2196/35749 PMID: PMC9377467
158. **Lanza**, S. T., Sokolovsky, A. W., Linden-Carmichael, A. N., White, H. R., & Jackson, K. M. (2022). Understanding heterogeneity among simultaneous alcohol and marijuana users: Latent classes derived from daily diary data. *Journal of Studies on Alcohol and Drugs*, *83*, 358-363. PMID: PMC9134998
157. **Lanza**, S. T., Whetzel, C. A., Linden-Carmichael, A. N., & Newschaffer, C. J. (2022). Change in college student health and well-being profiles as a function of the COVID-19 pandemic. *PLOS One*, *17*(5), e0267724. doi: 10.1371/journal.pone.0267724 PMID: PMC9060353
156. Linden-Carmichael, A. N., \*Van Doren, N., Bray, B. C., Jackson, K., & **Lanza**, S. T. (2022). Stress and affect as daily risk factors for substance use patterns: An application of latent class analysis for daily diary data. *Prevention Science*, *23*(4), 598-607. doi: 10.1007/s1121-021-01305-9. PMID: PMC9054936
155. \*Qian, T., Walton, A. E., Collins, L. M., Klasnja, P., **Lanza**, S. T., Nahum-Shani, I., Rabbi, M., Russell, M. A., Walton, M. A., Yoo, H., & Murphy, S. A. (2022). The micro-randomized trial for developing digital interventions: Experimental design and data analysis considerations. *Psychological Methods*, *27*(5), 874-894. doi: 10.1037/met0000283. PMID: PMC9276848
154. \*Stull, S. W., Linden-Carmichael, A. N., Cloutier, R. M., Bonnie, A. E., & **Lanza**, S. T., (2022). Flexibly modeling age trends in the prevalence of co-occurring patterns of substance use and mental health disorders using time-varying effects and latent class analysis. *The American Journal of Drug and Alcohol Abuse*, *48*, 293-301. doi: 10.1080/00952990.2021.2016786. PMID: PMC35100070

153. \*Stull, S. W., Mogle, J., Bertz, J. W., Burgess-Hull, A. J., Panlilio, L. V., **Lanza**, S. T., Preston, K. L., & Epstein, D. H. (2022). Variability in intensively assessed mood: Systematic sources and factor structure in outpatients with opioid use disorder. *Psychological Assessment*, *34*(10), 966-977. doi: 10.1037/pas0001160 PMID: In process
152. Bekiroglu, K., Russell, M. A., Lagoa, C., Su, R., Sznaiier, M., **Lanza**, S. T., & Odgers, C. L. (2021). Continuous-time model identification: Application on a behavioural (miLife) study. *International Journal of Control*, *94*(9), 2318-2329. doi: 10.1080/00207179.2019.1706101.
151. \*Hochgraf, A. K., Fosco, G. M., **Lanza**, S. T., & McHale, S. M. (2021). Developmental timing of parent-youth intimacy as a protective factor for adolescent adjustment problems. *Journal of Family Psychology*, *35*(7), 916-926. doi: 10.1037/fam0000864. PMID: PMC8478700
150. \*Hochgraf, A. K., **Lanza**, S. T., Fosco, G. M., & McHale, S. M. (2021). The developmental course of the link between weight concerns and cigarette use across adolescence: differences by gender. *International Journal of Eating Disorders*, *54*(10), 1793-1799. doi: 10.1002/eat.23586. PMID: PMC8492492
149. \*Jones, D., \*\*Allen, H., **Lanza**, S. T., & Graham-Engeland, J. (2021). Daily associations between affect and alcohol use among adults: The importance of affective arousal. *Addictive Behaviors*, *112*, 106623. doi: 10.1016/j.addbeh.2020.106623. PMID: PMC7572769
148. Linden-Carmichael, A. N., \*\*Allen, H., & **Lanza**, S. T. (2021). The socio-environmental context of simultaneous alcohol and marijuana use among young adults: Examining day-level associations. *Drug and Alcohol Review*, *40*(4), 647-657. doi: 10.1111/dar.13213. PMID: PMC8543342
147. Linden-Carmichael, A. N., \*Hochgraf, A. K., \*\*Cloutier, R. M., \*Stull, S. W., & **Lanza**, S. T. (2021). Associations between simultaneous alcohol and cannabis use and next-day negative affect among young adults: The role of sex and trait anxiety. *Addictive Behaviors*, *123*, 107082. doi: 10.1016/j.addbeh.2021.107082. PMID: PMC8419092
146. \*Mak, H. W., Fosco, G. M., & **Lanza**, S. T. (2021). Dynamic associations of parent-adolescent closeness and friend support with adolescent depressive symptoms across ages 12-19. *Journal of Research on Adolescence*, *31*(2), 299-316. doi: 10.1111/jora.12597. PMID: PMC8127347
145. Panlilio, L. V., \*Stull, S. W., Bertz, J. W., Burgess-Hull, A. J., **Lanza**, S. T., Curtis, B. L., Phillips, K. A., Epstein, D. H., Preston, K. L. (2021). Beyond abstinence and relapse II: Momentary relationships between stress, craving, and lapse within clusters of patients with similar patterns of drug use. *Psychopharmacology*, *238*(6), 1513-1529. doi: 10.1007/s00213-021-05782-2. PMID: PMC8141007
144. Rice, C. E., Fish, J. N., Russell, S. T., & **Lanza**, S. T. (2021). Sexual minority-related discrimination across the life course: Findings from a national sample of adults in the United States. *Journal of Homosexuality*, *68*, 252-268. doi: 10.1080/00918369.2019.1648083. PMID: PMC7073284
143. \*Stull, S., Bertz, J. W., Epstein, D. H., Bray, B. C., & **Lanza**, S. T. (2021). Anhedonia and substance use disorders by type, severity, and with mental health disorders. *Journal of Addiction Medicine*, *16*(3), e150-156. doi: 10.1097/ADM.0000000000000891. PMID: PMC8761228
142. \*Bhuiyan, N., Linden-Carmichael, A. N., **Lanza**, S. T., Schmitz, K. H., & Mama, S. K. (2020). Age-varying associations between physical activity and psychological outcomes among rural cancer survivors. *Journal of Behavioral Medicine*, *44*(4), 484-491. doi: 10.1007/s10865-020-00187-6. PMID: PMC8039059
141. \*Mak, H. W., Russell, M. A., **Lanza**, S. T., Feinberg, M. E., & Fosco, G. M. (2020). Age-varying associations of parental knowledge and antisocial peer behavior with adolescent substance use. *Developmental Psychology*, *56*(2), 298-311. doi:10.1037/dev0000866 PMID: PMC7195894
140. Conroy, D. E., Yang, C.-H., **Lanza**, S. T., Smyth, J. M., & Lagoa, C. M. (2020). Temporal dynamics of treatment receipt in a text message intervention for physical activity: Single-group, within-person trial. *JMIR mHealth and uHealth*, *22*, 8(4), e14270. PMID: PMC7203619
139. Dziak, J. J., Coffman, D. L., **Lanza**, S. T., Li, R., & Jermiin, L. S. (2020). Sensitivity and specificity of information criteria. *Briefings in Bioinformatics*, *21*, 553-565. doi: /10.1101/449751 PMID: PMC7299313

138. Linden-Carmichael, A. N., \*\*Allen, H. K., Masters, L. D., Ansell, E. B., **Lanza**, S. T. (2020). Age-varying trends in alcohol and cannabis co-occurring use: Implications for prescription drug misuse. *American Journal of Drug and Alcohol Abuse*, 47(2), 209-219. doi: 10.1080/00952990.2020.1831003. PMID: PMC8543337
137. Linden-Carmichael, A. N., \*\*Allen, H., & **Lanza**, S. T. (2020). The language of subjective alcohol effects: Do young adults vary in their feelings of intoxication? *Experimental and Clinical Psychopharmacology*, 29(6), 670-678. doi: 10.1037/pha0000416. PMID: PMC8073287
136. Linden-Carmichael, A. N., \*Van Doren, N., Masters, L. D., & **Lanza**, S. T. (2020). Simultaneous alcohol and marijuana use in daily life: Implications for level of use, subjective intoxication, and positive and negative consequences. *Psychology of Addictive Behaviors*, 34, 447-453. doi: 10.1037/adb0000556. PMID: PMC7148190  
\*Featured in June 22, 2021 NIDA Notes.
135. Linden-Carmichael, A. N., Masters, L. D., & **Lanza**, S. T. (2020). "Buzzwords": Crowd-sourcing and quantifying U.S. young adult terminology for subjective effects of alcohol and marijuana use. *Experimental and Clinical Psychopharmacology*, 28, 632-637. doi: 10.1037/pha0000344. PMID: PMC7375944
134. Russell, M. A., Linden-Carmichael, A. N., **Lanza**, S. T., \*Fair, E. V., Sher, K. J., & Piasecki, T. M. (2020). Affect relative to day-level drinking initiation: analyzing ecological momentary assessment data with multilevel spline modeling. *Psychology of Addictive Behaviors*, 20, 753-764. doi: 10.1037/adb0000550. PMID: PMC7148183
133. \*\*Fish, J. N., Rice, C. E., **Lanza**, S. T., & Russell, S. T. (2019). Is young adulthood a critical period for suicidal behavior among sexual minorities? Results from a US national sample. *Prevention Science*, 20, 353-365. doi: 10.1007/s11121-018-0878-5 PMID: PMC6163093
132. Bray, B. C., Dziak, J. J., & **Lanza**, S. T. (2019). Age trends in alcohol use behavior patterns among U.S. adults ages 18-65. *Drug and Alcohol Dependence*, 205, 107689. doi: 10.1016/j.drugalcdep.2019.107689 PMID: PMC6957076
131. Bray, B. C., Dziak, J. J., Patrick, M. E., & **Lanza**, S. T. (2019). Inverse propensity score weighting with a latent class exposure: estimating the causal effect of reported reasons for alcohol use on adulthood problem alcohol use 16 years later. *Prevention Science*, 20, 394-406. doi: 10.1007/s11121-018-0883-8 PMID: PMC6139077
130. Linden-Carmichael, A. N., Russell, M. A., & **Lanza**, S. T. (2019). Flexibly modeling alcohol use disorder risk: How many drinks should we count? *Psychology of Addictive Behaviors*, 33, 50-57. doi:10.1037/adb0000431. PMID: PMC6521945
129. Newman, M. G., \*Shin, K. E., & **Lanza**, S. T. (2019). Time-varying moderation of treatment outcomes by illness duration and comorbid depression in generalized anxiety disorder. *Journal of Consulting and Clinical Psychology*, 87, 282-293. PMID: PMC6632089
128. Patrick, M. E., Terry-McElrath, Y. M., **Lanza**, S. T., Jager, J., Schulenberg, J. E., & O'Malley, P. M. (2019). Shifting age of peak binge drinking prevalence: historical changes in normative trajectories among young adults aged 18 to 30. *Alcoholism: Clinical and Experimental Research*, 43, 287-298. doi: 10.1111/acer.13933 PMID: PMC6432634
127. Rice, C., Vasilenko, S. A., Fish, J. N., & **Lanza**, S. T. (2019). Sexual minority health disparities: an examination of age-related trends across adulthood in a national cross-sectional sample. *Annals of Epidemiology*, 31, 20-25. PMID: PMC6606453
126. Zawadski, M. J., Scott, S. B., Almeida, D. M., **Lanza**, S. T., Conroy, D. E., Sliwinski, M. J., \*\*Kim, J., \*\*Marcusson-Clavertz, D., Stawski, R. S., Green, P. M., Sciamanna, C. N., & Smyth, J. M. (2019). Understanding stress reports in daily life: A coordinated analysis of factors associated with the frequency of reporting stress. *Journal of Behavioral Medicine*, 42, 545-560. PMID: PMC6526071
125. \*Braymiller, J. L., Masters, L. D., Linden-Carmichael, A. N., & **Lanza**, S. T. (2018). Contemporary patterns of marijuana use and attitudes among high school seniors: 2010–2016. *Journal of Adolescent Health*, 63, 394-400. PMID: PMC6510238
124. Conroy, D. E., Hojjatinia, S., Lagoa, C. M., Yang, C.-H., **Lanza**, S. T., & Smyth, J. M. (2018). Personalized models of physical activity responses to text message micro-interventions: a proof-of-concept application of control systems

engineering methods. *Psychology of Sports & Exercise*, 41, 172-180. doi: 10.1016/j.psychsport.2018.06.011 PMID: PMC6404972

123. Dierker, L., Selya, A., **Lanza**, S., Li, R., & Rose, J. (2018). Depression and marijuana use disorder symptoms among current marijuana users. *Addictive Behaviors*, 76, 161-168. doi: 10.1016/j.addbeh.2017.08.013 PMID: PMC5614863
122. Evans-Polce, R. J., Patrick, M. E., **Lanza**, S. T., Miech, R. M., O'Malley, P. M., & Johnston, L. (2018). Reasons for vaping among US 12th graders. *Journal of Adolescent Health*, 62, 457-462. PMID: PMC5866738  
*Note: highlighted in the Journal of Adolescent Health's Year in Review as one of "the most important topics in adolescent and young adult health and medicine of 2018."*
121. Linden-Carmichael, A. N., Dziak, J. J., & **Lanza**, S. T. (2018). Dynamic features of problematic drinking: Alcohol use disorder latent classes across ages 18-64. *Alcohol and Alcoholism*, 54, 97-103. doi: 10.1093/alcalc/agy074. PMID: PMC6324653
120. Linden-Carmichael, A. N., Kloska, D. D., Evans-Polce, R., **Lanza**, S. T., & Patrick, M. E. (2018). College degree attainment by age of first marijuana use and parental education. *Substance Abuse*, 40, 66-70. doi:10.1080/08897077.2018.1521354. PMID: PMC6535370
119. Linden-Carmichael, A. N., & **Lanza**, S. T. (2018). Drinking patterns of college- and non-college-attending young adults: Is high-intensity drinking only a college phenomenon? *Substance Use and Misuse*. doi: 10.1080/10826084.2018.1461224. PMID: PMC6105386
118. \*\*Rice, C. A., Vasilenko, S. A., **Lanza**, S. T., Davis, J. A., Fields, K. S., Ervin, M., & Turner, A. N. (2018). Time since first acting on same-sex attraction and recreational drug use among men who have sex with men (MSM): Is there an effect of "gay age"? *Substance Use and Misuse*, 53, 852-858. doi: 10.1080/10826084.2017.1388407 PMID: PMC6124658
117. Scott, S. B., Sliwinski, M. J., Zawadzki, M., Stawski, R., \*\*Kim, J., \*\*Marcusson-Clavertz, D., **Lanza**, S. T., Conroy, D., Buxton, O., Almeida, D. M., & Smyth, J. M. (2018). A coordinated analysis of variance in affect in daily life. *Assessment*. doi:10.1177/1073191118799460. PMID: PMC6408986
116. Smyth, J. M., Sliwinski, M. J., Zawadzki, M. J., Scott, S. B., Conroy, D. C., **Lanza**, S. T., \*\*Marcusson-Clavertz, D., \*\*Kim, J., Stawski, R. S., Stoney, C. M., Buxton, O. M., Sciamanna, C. N., Green, P. M., & Almeida, D. M. (2018). Everyday stress response targets in the science of behavior change. *Behavior Research and Therapy*, 101, 20-29. doi: 10.1016/j.brat.2017.09.009 PMID: PMC5801200
115. Stawski, R. S., Scott, S. B., Zawadzki, M. J., Sliwinski, M. J., \*\*Marcusson-Clavertz, D., \*\*Kim, J., **Lanza**, S. T., Green, P. A., Almeida, D. M., & Smyth, J. M. (2018). Age differences in everyday stressor-related negative affect: A coordinated analysis. *Psychology and Aging*. <https://doi.org/10.1037/pag0000309> PMID: PMC6367015
114. Vasilenko, S. A., Linden-Carmichael, A., **Lanza**, S. T. & Patrick, M. E. (2018). Sexual behavior and heavy episodic drinking across the transition to adulthood: Differences by college attendance. *Journal of Research on Adolescence*, 28, 473-487. doi: 10.1111/jora.12348. PMID: PMC5899061
113. \*\*Bekiroglu, K., Russell, M. A., Lagoa, C. M., **Lanza**, S. T., & Piper, M. E. (2017). Evaluating the effect of smoking cessation treatment on a complex dynamical system. *Drug and Alcohol Dependence*, 180, 215-222. doi: 10.1016/j.drugalcdep.2017.07.037 PMID: PMC5901658
112. \*\*Bekiroglu, K., Lagoa, C., Murphy, S. A., & **Lanza**, S. T. (2017). Control engineering methods for the design of robust behavioral treatments. *IEEE Transactions on Control Systems Technology*, 25, 979-990. doi: 10.1109/TCST.2016.2580661. PMID: PMC5362168
111. Cleland, C., **Lanza**, S. T., Vasilenko, S. A., & Gwadz, M. (2017). Syndemic risk classes and substance use problems among adults in high-risk urban areas: A latent class analysis. *Frontiers in Public Health: Public Mental Health*, 5, 237. PMID: PMC5594078
110. Cook, J. W., **Lanza**, S. T., \*Chu, W., Baker, T. B., & Piper, M. E. (2017). Anhedonia: Its dynamic relations with craving, negative affect, and treatment during a quit smoking attempt. *Nicotine and Tobacco Research*, 19, 703-709. PMID: PMC5423098



109. \*\*Evans-Polce, R., Maggs, J. L., Staff, J., & **Lanza**, S. T. (2017). The age-varying association of student status with excessive alcohol use: Ages 18 to 30 years. *Alcoholism: Clinical and Experimental Research*, *41*, 407-413. PMID: PMC5272785
108. **Lanza**, S. T., Russell, M. A., & \*Braymiller, J. (2017). Emergence of electronic cigarette use in US adolescents and the link to traditional cigarette use. *Addictive Behaviors*, *67*, 38-43. PMID: PMC5250583
107. Linden-Carmichael, A. N., **Lanza**, S. T., Dziak, J. J., & Bray, B. C. (2017). Contemporary alcohol use patterns among a national sample of U.S. adult drinkers. *Journal of Addictive Diseases*, *36*, 222-226. doi: 10.1080/10550887.2017.1338816. PMID: PMC5656524
106. Linden-Carmichael, A., Vasilenko, S., **Lanza**, S. T., & Maggs, J. (2017). High-intensity drinking versus heavy episodic drinking: Prevalence rates and relative odds of alcohol use disorder across adulthood. *Alcoholism: Clinical and Experimental Research*, *41*, 1754-1759. doi: 10.1111/acer.13475. PMID: PMC28800154
105. Patrick, M. E., Evans-Polce, R., Kloska, D. D., Maggs, J. L., & **Lanza**, S. T. (2017). Age-related changes in associations between reasons for alcohol use and high-intensity drinking across young adulthood. *Journal of Studies on Alcohol and Drugs*, *78*, 558-570. PMID: PMC5551660
104. Piper, M. E., Vasilenko, S. A., Cook, J. W., & **Lanza**, S. T. (2017). What a difference a day makes: differences in initial abstinence response during a smoking cessation attempt. *Addiction*, *112*, 330-339. PMID: PMC5233552
103. \*\*Rice, C. E., Turner, A. N., & **Lanza**, S. T. (2017). Sexual behavior latent classes among men who have sex with men: Associations with sexually transmitted infections. *The Journal of Sex Research*, *54*, 776-783. PMID: PMC5479140
102. Snippe, E., Dziak, J. J., **Lanza**, S. T., Nyklíček, I., Wichers, M. (2017). The shape of change in perceived stress, negative affect, and stress-sensitivity during mindfulness-based stress reduction. *Mindfulness*, *8*, 728-736. PMID: PMC5648363
101. Vasilenko, S. A., Evans-Polce, R., & **Lanza**, S. T. (2017). Age trends in rates of substance use disorders across ages 18-90: Differences by gender and race/ethnicity. *Drug and Alcohol Dependence*, *180*, 260-264. PMID: PMC5757874
100. \*Ashour, M., \*\*Bekiroglu, K., Yang, C.-H., Lagoa, C., Conroy, D., Smyth, J., & **Lanza**, S. T. (2016). On the mathematical modeling of the effect of treatment on human physical activity. In *Proceedings of the 2016 IEEE Conference on Control Applications (CCA)* (pp. 1084-1091). Buenos Aires, Argentina: IEEE. PMID: Exempt (non-periodical)
99. Dziak, J. J., Bray, B. C., \*Zhang, J., Zhang, M., & **Lanza**, S. T. (2016). Comparing the performance of improved classify-analyze approaches in latent profile analysis. *Methodology*, *12*, 107-116. PMID: PMC5473653
98. \*\*Evans-Polce, R. E., **Lanza**, S. T., & Maggs, J. L. (2016). Heterogeneity of alcohol, tobacco, and other substance use behaviors in US college students: A latent class analysis. *Addictive Behaviors*, *53*, 80-85. doi: 10.1016/j.addbeh.2015.10.010 PMID: PMC4712642
97. \*\*Fairlie, A. M., Maggs, J. L., & **Lanza**, S. T. (2016). Profiles of college drinkers defined by alcohol behaviors at the week level: Replication across semesters and prospective associations with hazardous drinking and dependence-related symptoms. *Journal of Studies on Alcohol and Drugs*. *77*, 38-50, doi: 10.15288/jsad.2016.77.38 PMID: PMC4711318
96. **Lanza**, S. T., & Cooper, B. R. (2016). Latent class analysis for developmental research. *Child Development Perspectives*, *10*, 59-64. PMID: PMC6914261
95. **Lanza**, S. T., Vasilenko, S. A., & Russell, M. A. (2016). Time-varying effect modeling to address new questions in behavioral research: Examples in marijuana use. *Psychology of Addictive Behaviors*. *30*(8), 939-954. doi: 10.1037/adb0000208. PMID: PMC5222706
94. \*Parr, A., **Lanza**, S. T., & Bernthal, P. (2016). Personality profiles of effective leadership performance in assessment centers. *Human Performance*. *29*:2, 143-157. doi: 10.1080/08959285.2016.1157596 PMID: PMC5058439
93. Patrick, M. E., Kloska, D. D., Vasilenko, S. A., & **Lanza**, S. T. (2016). Perceived friends' use as a risk factor for marijuana use across young adulthood. *Psychology of Addictive Behaviors*, *30*, 904-914. doi: 10.1037/adb0000215 PMID: PMC5222776

92. \*\*Rice, C., Maierhofer, C., **Lanza**, S. T., & Turner, A. N. (2016). Beyond anal sex: Sexual practices among men who have sex with men and associations with HIV and other sexually transmitted infections. *Journal of Sexual Medicine*, *13*, 374-382. PMID: PMC4779701
91. Russell, M. A., Vasilenko, S. A., & **Lanza**, S. T. (2016). Age-varying links between violence exposure and behavioral, mental, and physical health. *Journal of Adolescent Health*, *59*, 189-196. doi: 10.1016/j.jadohealth.2016.03.038 PMID: PMC4958611
90. Vasilenko, S. A., Kugler, K. C., & **Lanza**, S. T. (2016). Latent classes of adolescent sexual and romantic relationship experiences: Implications for adult sexual health and relationship outcomes. *The Journal of Sex Research*, *53*, 742-753. doi: 10.1080/00224499.2015.1065952 PMID: PMC4824667
89. Bray, B. C., **Lanza**, S. T., & Tan, X. (2015). Eliminating bias in classify-analyze approaches for latent class analysis. *Structural Equation Modeling: A Multidisciplinary Journal*, *22*, 1-11. doi: 10.1080/10705511.2014.935265 PMID: PMC4299667
88. \*\*Evans-Polce, R. E., Vasilenko, S. A., & **Lanza**, S. T. (2015). Changes in gender and racial/ethnic disparities in rates of cigarette use, regular heavy episodic drinking, and marijuana use: ages 14 to 32. *Addictive Behaviors*, *41*, 218-222. PMID: PMC4314406
87. \*\*Fairlie, A. M., Maggs, J., L., & **Lanza**, S. T. (2015). Prepartying, drinking games, and extreme drinking among college students: A daily-level investigation. *Addictive Behaviors*, *42*, 91-95. PMID: PMC4272894
86. **Lanza**, S. T., & Vasilenko, S. A. (2015). New methods shed light on age of onset as a risk factor for nicotine dependence. *Addictive Behaviors*, *50*, 161-164. doi:10.1016/j.addbeh.2015.06.024. PMID: PMC4519837
85. **Lanza**, S. T., Vasilenko, S. A., Dziak, J. J., & \*Butera, N. M. (2015). Trends among US high school seniors in recent marijuana use and associations with other substances: 1976 to 2013. *Journal of Adolescent Health*, *57*, 198-204. doi:10.1016/j.jadohealth.2015.04.006 PMID: PMC4519837
84. Mason, M., Mennis, J., Way, T., **Lanza**, S., Russell, M., & Zaharakis, N. (2015). Time-varying effects of a text-based smoking cessation intervention for urban adolescents. *Drug and Alcohol Dependence*, *157*, 99-105. doi: 10.1016/j.drugalcdep.2015.10.016 PMID: PMC4831210
83. \*\*Schuler, M. S., Vasilenko, S. A., & **Lanza**, S. T. (2015). Age-varying associations between substance use behaviors and depressive symptoms during adolescence and young adulthood. *Drug and Alcohol Dependence*, *157*, 75-82. doi: 10.1016/j.drugalcdep.2015.10.005. PMID: PMC4663168
82. Vasilenko, S. A., Kugler, K. C., \*Butera, N. M. & **Lanza**, S. T. (2015). Patterns of adolescent sexual behavior predicting young adult sexually transmitted infections: A latent class analysis approach. *Archives of Sexual Behavior*, *44*, 705-715. doi: 10.1007/s10508-014-0258-6. PMID: PMC4107199
80. \*Zhang, J., Bray, B. C., Zhang, M., & **Lanza**, S. T. (2015). Personality profiles and frequent heavy drinking in young adulthood. *Personality and Individual Differences*, *80*, 18-21. doi:10.1016/j.paid.2015.01.054 PMID: PMC4397499
79. \*Zhang, J., **Lanza**, S. T., Zhang, M., & Su, B. (2015). Structure of the University Personality Inventory for Chinese college students. *Psychological Reports: Measures & Statistics*, *116*, 821-839. doi: 10.2466/08.02.PR0.116k26w3 PMID: PMC4852747
78. \*Butera, N. M., **Lanza**, S. T., & Coffman, D. L. (2014). A framework for estimating causal effects in latent class analysis: Is there a causal link between early sex and subsequent profiles of Delinquency? *Prevention Science*, *15*, 397-407. doi: 10.1007/s11121-013-0417-3. PMID: PMC3888479
77. Cooper, B. R., & **Lanza**, S. T. (2014). Who benefits most from Head Start? Using latent class moderation to examine differential treatment effects. *Child Development*, *85*, 2317-2338. doi: 10.1111/cdev.12278. PMID: PMC4236237
76. Dziak, J. J., **Lanza**, S. T., & Tan, X. (2014). Effect size, statistical power, and sample size requirements for the bootstrap likelihood ratio test in latent class analysis. *Structural Equation Modeling: A Multidisciplinary Journal*, *21*, 1-19. doi: 10.1080/10705511.2014.919819. PMID: PMC4196274

75. Lagoa, C., \*Bekiroglu, K., **Lanza, S. T.**, & Murphy, S. (2014). Designing adaptive intensive interventions using methods from engineering. *Journal of Consulting and Clinical Psychology, 82*, 868-78. PMID: PMC4176810
74. **Lanza, S. T.**, Cooper, B. R., & Bray, B. C. (2014). Population heterogeneity in the salience of multiple risk factors for adolescent delinquency. *Journal of Adolescent Health, 54*, 319-325. PMID: PMC3943167
73. **Lanza, S. T.**, Piper, M. E., & Shiffman, S. (2014). New methods for advancing research on tobacco dependence using ecological momentary assessments. *Nicotine and Tobacco Research, 16 Suppl 2*, S71-S72. PMID: PMC4085886
72. **Lanza, S. T.**, Vasilenko, S., \*Liu, X., Li, R., & Piper, M. (2014). Advancing the understanding of craving during smoking cessation attempts: A demonstration of the time-varying effect model. *Nicotine and Tobacco Research, 16 Suppl 2*, S127-S134. doi: 10.1093/ntr/ntt128 PMID: PMC3977629
71. Vasilenko, S. A., & **Lanza, S. T.** (2014). Predictors of multiple sexual partners from adolescence through young adulthood. *Journal of Adolescent Health, 56*, 491-497. doi: 10.1016/j.jadohealth.2013.12.025. PMID: PMC4139487
70. Vasilenko, S. A., Piper, M. E., **Lanza, S. T.** \*Liu, X., \*\*Yang, J. & Li, R. (2014). Time-varying processes involved in smoking lapse in a randomized trial of smoking cessation therapies. *Nicotine and Tobacco Research, 16*, S135-S143. doi: 10.1093/ntr/ntt18. PMID: PMC3977637
69. Abraham, L. M., Crais, E., Vernon-Feagans, L., & **The Family Life Project Key Investigators** (2013). Early maternal language use during book sharing in families from low income environments. *American Journal of Speech Language Pathology, 22*, 71-83. doi: 10.1044/1058-0360(2012/11-0153).
68. \*Bekiroglu, K., Lagoa, C., Murphy, S. A., & **Lanza, S. T.** (2013). A robust MPC approach to the design of behavioral treatments. *Proceedings of the 52nd IEEE Conference on Decision and Control*, 3505-3510. PMC Exempt
67. \*Deiches, J., Baker, T., **Lanza, S. T.**, & Piper, M. (2013). Early lapses in a cessation attempt: Lapse contexts, cessation success and predictors of early lapse. *Nicotine and Tobacco Research, 15*, 1883-91. PMID: PMC3790630
66. Hillemeier, M. M., **Lanza, S. T.**, Landale, N. S., & Oropesa, R. S. (2013). Measuring early childhood health and health disparities: A new approach. *Maternal and Child Health Journal, 17*, 1852-1861. PMID: PMC3615056 doi: 10.1007/s10995-012-1205-6
65. \*\*Hopfer, S., Hecht, M. L., **Lanza, S. T.**, Tan, X., & \*\*Xu, S. (2013). Preadolescent drug use resistance skill profiles, substance use, and substance use prevention. *The Journal of Primary Prevention, 34*, 395-404. PMID: PMC4089389
64. Landale, N. S., **Lanza, S. T.**, Hillemeier, M. M., & Oropesa, R. S. (2013). Health and development among Mexican, Black, and white preschool children: An integrative approach using latent class analysis. *Demographic Research, 28*, 1302-1338, PMID: PMC4105264
63. **Lanza, S. T.**, Coffman, D. L., & \*\*Xu, S. (2013). Causal inference in latent class analysis. *Structural Equation Modeling: A Multidisciplinary Journal, 20*, 361-383. PMID: PMC4240500
62. **Lanza, S. T.**, \*Moore, J. E., & \*Butera, N. M. (2013). Drawing causal inference using propensity scores: A practical guide for community psychologists. *American Journal of Community Psychology, 52*, 380-392. doi: 10.1007/s10464-013-9604-4. PMID: PMC4098642
61. **Lanza, S. T.** & \*Rhoades, B. L. (2013). Latent class analysis: An alternative perspective on subgroup analysis in prevention and treatment. *Prevention Science, 14*, 157-168. PMID: PMC3173585
60. **Lanza, S. T.**, Tan, X., & Bray, B. C. (2013). Latent class analysis with distal outcomes: A flexible model-based approach. *Structural Equation Modeling, 20*, 1-20. PMID: PMC4240499
59. \*Liu, X., Li, R., **Lanza, S. T.**, \*\*Vasilenko, S., & Piper, M. (2013). Understanding the role of cessation fatigue in the smoking cessation process. *Drug and Alcohol Dependence, 133*, 548-555. doi: 10.1016/j.drugalcdep.2013.07.025 PMID: PMC4057045
58. Pancsofar, N., Vernon-Feagans, L., Odom, E., & **The Family Life Project Investigators.** (2013). Work characteristics and fathers' vocabulary to infants in African American families. *Journal of Applied Developmental Psychology, 34*, 73-81. DOI: 10.1016/j.appdev.2012.11.005 PMID: PMC3587678

57. Barnett, M. A., Mills-Koonce, W. R., Gustaffson, H. C., Cox, M. & **Family Life Project Key Investigators** (2012). Mother-grandmother conflict, negative parenting, and young children's social development in multigenerational families. *Family Relations*, 61, 864-877. DOI: 10.1111/j.1741-3729.2012.00731.x
56. Cleveland, M. J., **Lanza**, S. T., Ray, A. E., Turrisi, R., & Mallett, K. M. (2012). Transitions in first-year college student drinking behaviors: Does drinking latent class membership moderate the effects of parent- and peer-based intervention components? *Psychology of Addictive Behaviors*, 26, 440-450. PMID: PMC3413757.
55. Gustafsson, H. C., Cox, M. J., Blair, C., & **the Family Life Project Key Investigators**. (2012). Maternal parenting as a mediator of the relationship between intimate partner violence and effortful control. *Journal Of Family Psychology*, 26(1), 115-123. doi:10.1037/a0026283 PMID: PMC3327444
54. \*\*Shiyko, M. P., **Lanza**, S. T., Tan, X., Li, R., & Shiffman, S. (2012). Using the time-varying effect model (TVEM) to examine dynamic associations between negative affect and self-confidence on smoking urges: Differences between successful quitters and relapsers. *Prevention Science*, 13, 288-299. doi: 10.1007/s11121-011-0264-z PMID: PMC3171604
53. Vernon-Feagans, L., Garrett-Peters, P., Willoughby, M., Mills-Koonce, R., Cox, M., Blair, C., Burchinal, P., Burton, L., Crnic, K., Crouter, N., Garrett-Peters, P., Granger, D., Greenberg, M., **Lanza, S.**, Miccio, A., Mills-Koonce, R., Skinner, D., Stifter, C., Werner, E., & Willoughby, M. (2012). Chaos, poverty, and parenting: Predictors of early language development. *Early Childhood Research Quarterly*, 27, 339 – 351.
52. Blair, C., Granger, D., Willoughby, M., Mills-Koonce, W.R., Cox, M., Greenberg, M.T., Kivlighan, K., Fortunato, C., & **The Family Life Project Key Investigators**. (2011). Salivary cortisol mediates effects of poverty and parenting on executive functions in early childhood. *Child Development*, 82(6), 1970-1984. DOI: 10.1111/j.1467-8624.2011.01643.x PMID: PMC3218241
51. Garrett-Peters, P.T., Mills-Koonce, W. R., Zerwas, S., Cox, M. J., Vernon-Feagans, L., & **The Family Life Project Key Investigators** (2011). Fathers' early emotion talk: Associations with income, ethnicity, and family practice. *Journal of Marriage and Family*, 73(2), 335-353. doi: 10.1111/j.1741-3737.2010.00810.x
50. Goodman, W. B., Crouter, A. C., **Lanza**, S. T., Cox, M. J., Vernon-Feagans, L., & The Family Life Project Key Investigators (2011). Paternal work stress and latent profiles of father-infant parenting quality. *Journal of Marriage and Family*, 73(3), 588-604. PMID: PMC3495607
49. Hibel, L.C., Granger, D.A., Blair, C., Cox, M.J., & **The Key Family Life Project Investigators**. (2011). Maternal sensitivity buffers the adrenocortical implications of intimate partner violence exposure during early childhood. *Development and Psychopathology*, 23, 689-701. doi:10.1017/S0954579411000010
48. **Lanza**, S. T., Kugler, K. C., & \*\*Mathur, C. (2011). Differential effects for sexual risk behavior: An application of finite mixture regression. *The Open Family Studies Journal*, 4(Suppl. 1-M9), 81-88. PMID: PMC3487167
47. **Lanza**, S. T., \*Rhoades, B. L., Greenberg, M. T., Cox, M. J., & The Family Life Project Key Investigators (2011). Modeling multiple risks during infancy: Contributions of a person-centered approach. *Infant Behavior and Development*, 34(3), 390-406. PMID: PMC3134117
46. Mills-Koonce, W. R., Garrett-Peters, P., Barnett, M., Granger, D., Blair, B, Cox, M. J., & **The Family Life Project Key Investigators**. (2011). Father contributions to cortisol responses in infancy and toddlerhood. *Developmental Psychology*, 47(2), 288-395. doi: 10.1037/a0021066
45. \*Rhoades, B. L., Greenberg, M. T., **Lanza**, S. T., & Blair, C. (2011). Demographic and familial predictors of early executive function development: Contribution of a person-centered perspective. *Journal of Experimental Child Psychology*, 108(3), 638-662. PMID: PMC3016464
44. Smith, R. A., & **Lanza**, S. T. (2011). Testing theoretical network classes and HIV-related correlates with latent class analysis. *AIDS Care*, 23, 1274-1281. doi: 10.1080/09540121.2011.555747. PMID: PMC3181093
43. Towe-Goodman, N., Stifter, C., Coccia, M., Cox, M., & **The Family Life Project Key Investigators**. (2011). Interparental aggression, attention skills, and early childhood behavior problems. *Development and Psychopathology*, 23, 563-576. doi: 10.1017/S0954579411000216

42. \*Bray, B. C., **Lanza**, S. T., & Collins, L. M. (2010). Modeling relations among discrete developmental processes: A general approach to associative latent transition analysis. *Structural Equation Modeling*, *17*, 541-569. PMID: PMC3094019
41. Cleveland, M. J., Collins, L. M., **Lanza**, S. T., Greenberg, M. T., & Feinberg, M. E. (2010). Does individual risk moderate the effect of contextual-level protective factors? A latent class analysis of substance use. *Journal of Prevention and Intervention in the Community*, *38*(3), 213-228. PMID: PMC2898733
40. **Lanza**, S. T., & \*Bray, B. C. (2010). Transitions in drug use among high-risk women: An application of latent class and latent transition analysis. *Advances and Applications in Statistical Sciences*, *3*, 203-235. PMID: PMC3171700
39. **Lanza**, S. T., Patrick, M. E., & Maggs, J. L. (2010). Latent transition analysis: Benefits of a latent variable approach to modeling transitions in substance use. *Journal of Drug Issues*, *40*(1), 93-120. PMID: PMC2909684
38. **Lanza**, S. T., \*Rhoades, B. L., Nix, R. L., Greenberg, M. T., & the Conduct Problems Prevention Research Group (2010). Modeling the Interplay of multilevel risk factors for future academic and behavior problems: a person-centered approach. *Development and Psychopathology*, *22*, 313-335. PMID: PMC3005302
37. **Lanza**, S. T., \*Savage, J., & Birch, L. (2010). Identification and prediction of latent classes of weight loss strategies among women. *Obesity*, *18*(4), 833-840. PMID: PMC2847025
36. Maldonado, M. M., & **Lanza**, S. T. (2010). A framework to examine gateway relations in drug use: An application of latent transition analysis. *Journal of Drug Issues*, *40*(4), 901-924. PMID: PMC3400537
35. Odom E. C., Vernon-Feagans, L., & **The Family Life Project Key Investigators**. (2010). Buffers of racial discrimination: Links with depression among rural African American mothers. *Journal of Marriage and Family*, *72*, 346-359. PMID : PMC2909597
34. Pancsofar, N., Vernon-Feagans, L., & **The Family Life Project Investigators**. (2010). Fathers' early contributions to children's language development in families from low-income rural communities. *Early Childhood Research Quarterly*, *25*(4), 450-463. Doi:10.1016/j.ecresq.2010.02.001 PMID: PMC2967789
33. Willoughby, M. T., Blair, C. B., Wirth, R. J., Greenberg, M., & **The Family Life Investigative Group**. (2010). The measurement of executive function at age 3 years: Psychometric properties and criterion validity of a new battery of tasks. *Psychological Assessment*, *22*(2) 306-317. Doi: 10.1037/a0018708
32. BeLue, R., **Lanza**, S. T., & Figaro, M. K. (2009). Lifestyle therapy changes and hypercholesterolemia: Identifying risk groups in a community sample of blacks and whites. *Ethnicity and Disease*, *19*(2), 142-147. PMID: PMC2786171
31. De Marco, A., Crouter, A. C., Vernon-Feagans, L., & **The Family Life Project Key Investigators**. (2009). The relationship between maternal work characteristics and child care selection and quality. *Community, Work, & Family*, *12*(4), 369-387. PMID: PMC2909618
30. \*Goodman, W. B., Crouter, A. C., & **The Family Life Project Key Investigators** (2009). Longitudinal associations between maternal work stress, negative work-family spillover, and depressive symptoms. *Family Relations*, *58*, 245-258. PMID: PMC2744315
29. \*Hibel, L. C., Granger, D. A., Blair, C. Cox, M. J., & **The Family Life Project Key Investigators**. (2009). Intimate partner violence moderates the association between mother-infant adrenocortical activity across an emotional challenge. *The Journal of Family Psychology*, *23*(5), 615-625.
28. Willoughby, M. T., Kollins, S. H., & McClernon, F. J., & **The Family Life Project Key Investigators**. (2009). Association between smoking and retrospectively reported ADHD symptoms in a large sample of new mothers. *Nicotine and Tobacco Research*, *11*(3), 313-322. PMID: PMC2666380
27. Barnett, M. A. & **The Family Life Project Key Investigators** (2008). Mother and grandmother parenting in low-income three-generation rural households. *Journal of Marriage and Family*, *70*(5), 1241-1257. PMID: PMC2783597

26. Blair, C., Granger, D., Kivlighan, K. T., Mills-Koonce, W. R., Willoughby, M., Greenberg, M. T., Hibel, L. C., Fortunado, C. & **Family Life Project Key Investigators**. (2008). Maternal and child contributions to cortisol response to emotional arousal in young children from low income rural communities. *Developmental Psychology, 44*(4), 1095-1109.
25. Burchinal, M. R., Vernon-Feagans, L., Cox, M., & **The Family Life Project Key Investigators**. (2008). Cumulative social risk, parenting, and infant development in rural low-income communities. *Parenting: Science and Practice, 8*, 41-69. PMID: PMC2777722
24. \*\*Chung, H., **Lanza**, S. T., & Loken, E. (2008). Latent transition analysis: Inference and estimation. *Statistics in Medicine, 27*, 1834-1854. PMID: PMC18069720
23. Garrett-Peters, P., Mills-Koonce, W. R., Adkins, D., Vernon-Feagans, L., Cox, M., & **The Family Life Project Key Investigators**. (2008) Early environmental correlates of maternal emotion talk. *Parenting: Science and Practice, 8*, 1-36. PMID: PMC2783602
22. \*Goodman, W. B., Crouter, A. C., **Lanza**, S. T., Cox, M. J., & The Family Life Project Key Investigators (2008). Paternal work characteristics and father-infant interaction quality in low-income, rural families. *Journal of Marriage and Family, 70*, 640-653. PMID: PMC2791409
21. **Lanza**, S. T., & Collins, L. M. (2008). A new SAS procedure for latent transition analysis: Transitions in dating and sexual risk behavior. *Developmental Psychology, 44*(2), 446-456. PMID: PMC2846549
20. Stifter, C. A., Willoughby, M. T., Towe-Goodman, N. R., & **The Family Life Project Key Investigators**. (2008). Agree or agree to disagree? Assessing the convergence between parents and observers on infant temperament. *Infant and Child Development, 17*, 407-426.
19. Vernon-Feagans, L., Pancsofar, N., Willoughby, M., Odom, E., Quade, A., Cox, M., & **Family Life Project Key Investigators**. (2008). Predictors of maternal language input to infants during a picture book task in the home: Family, SES, child characteristics and the parenting environment. *Journal of Applied Developmental Psychology, 29*, 213-226. PMID: PMC2448394
18. Zolotor, A., Burchinal, M., Skinner, D., Rosenthal, M. & **The Family Life Project Key Investigators**. (2008). Maternal psychological adjustment and knowledge of infant development as predictors of home safety practices in rural low-income communities. *Pediatrics, 121*(6), 1668 - 1675.
17. Flower, K., Willoughby, M., Cadigan, R.J., Perrin, E.M., Randolph, G., & **The Family Life Project Key Investigators** (2007). Understanding breastfeeding initiation and continuation in rural communities: A combined qualitative/quantitative approach. *Maternal and Child Health Journal, 12*(3), 402-414.
16. Granger, D., Blair, C., Willoughby, M., Kivlighan, K.T., Hibel, L.C., Fortunado, C.K., Wiegand, L.E., & **Family Life Project Key Investigators** (2007) Individual differences in salivary cortisol and alpha-amylase in mothers and their infants: Relation to tobacco and smoke exposure. *Developmental Psychobiology, 49*(7), 692-701.
15. **Lanza**, S. T., Collins, L. M., Lemmon, D. R., & Schafer, J. L. (2007). PROC LCA: A SAS procedure for latent class analysis. *Structural Equation Modeling, 14*(4), 671-694. PMID: PMC2785099
14. \*Maldonado-Molina, M. M., Collins, L. M., **Lanza**, S. T., Prado, G., Ramirez, R. R., & Canino, G. (2007). Patterns of substance use onset among Hispanics in Puerto Rico and the United States. *Addictive Behaviors, 32*(10), 2432-2437. PMID: PMC3001340
13. Blair, C., Granger, D., Willoughby, M., Kivlighan, K., & **Family Life Project Key Investigators**. (2006). Maternal sensitivity is related to hypothalamic-pituitary-adrenal axis stress reactivity and regulation in response to emotion challenge in 6-month-old infants. *Annals of New York Academy of Sciences, 1094*, 263-267.
12. Crouter, A. C., **Lanza**, S. T., Pirretti, A., \*Goodman, W. B., Neebe, E., & The Family Life Project Key Investigators (2006). The O\*Net jobs classification system: A primer for family researchers. *Family Relations, 55*, 461-472.
11. \*Hibel, L. C., Granger, D. A., Kivlighan, K. T., Blair, C. & **The Family Life Project Key Investigators**. (2006). Individual differences in salivary cortisol: Association with common over the counter and prescription medications in infants and their mothers. *Hormones and Behavior, 50*, 293-300.

10. **Lanza, S. T., & Collins, L. M. (2006).** A mixture model of discontinuous development in heavy drinking from ages 18 to 30: The role of college enrollment. *Journal of Studies on Alcohol, 67*, 552-561.
9. Ridenour, T.A., **Lanza, S.T., Donny, E.C., & Clark, D.B. (2006).** Different lengths of times for progressions in adolescent substance involvement. *Addictive Behaviors, 31*, 962-983. PMID: PMC1531690
8. **Lanza, S. T., Collins, L. M., Schafer, J. L., & Flaherty, B. P. (2005).** Using data augmentation to obtain standard errors and conduct hypothesis tests in latent class and latent transition analysis. *Psychological Methods, 10*, 84-100.
7. \*Chung, H., Park, Y., & **Lanza, S. T. (2005).** Latent transition analysis with covariates: Pubertal timing and substance use behaviours in adolescent females. *Statistics in Medicine, 24*, 2895-2910.
6. **NICHD Early Child Care Research Network. (2005).** Predicting individual differences in attention, memory and planning in first graders from experiences at home, child care, and school. *Developmental Psychology, 41*, 99-114.
5. \***Lanza, S. T., Donny, E., Collins, L. M., & Balster, R. (2004).** Analyzing the acquisition of drug self-administration using growth curve models. *Drug and Alcohol Dependence, 75*, 11-21.
4. Donny, E., \***Lanza, S. T., Balster, R., Collins, L. M., Caggiula, A., & Rowell, P. P. (2004).** Using growth models to relate acquisition of nicotine self-administration to break point and nicotine receptor binding. *Drug and Alcohol Dependence, 75*, 23-35.
3. **NICHD Early Child Care Research Network. (2004).** Father's and mother's parenting behavior and beliefs as predictors of children's social adjustment in the transition to school. *Journal of Family Psychology, 18*, 628-638.
2. \***Lanza, S. T., & Collins, L. M. (2002).** Pubertal timing and the stages of substance use in females during early adolescence. *Prevention Science, 3*, 69-82.
1. Jacobs, J. E., \***Lanza, S. T., Osgood, D. W., Eccles, J. S., & Wigfield, A. (2002).** Changes in children's self-competence and values: Gender and domain differences across grades one through twelve. *Child Development, 73*, 509-527.

## Chapters in Edited Volumes

- Lanza, S. T., \*\*Schuler, M. S., & Bray, B. C. (2016).** Latent class analysis with causal inference: The effect of adolescent depression on young adult substance use profile. In W. Wiedermann & A. von Eye (Eds.), *Causality and Statistics* (pp. 385-404). Hoboken, NJ: Wiley.
- Lanza, S. T., Bray, B. C., & Collins, L. M. (2013).** An introduction to latent class and latent transition analysis. In J. A. Schinka, W. F. Velicer, & I. B. Weiner (Eds.), *Handbook of Psychology* (2nd ed., Vol. 2, pp. 691-716). Hoboken, NJ: Wiley.
- Lanza, S. T., & Collins, L. M. (2010).** Modeling multidimensional sexual risk behavior using latent class analysis. In L. Passero & C. Sgariglia (Eds.), *Sexual Risk Behaviors*. Hauppauge, NY: Nova Science Publishers Inc., pp. 119-124.
- \***Lanza, S. T., \*Flaherty, B. P., & Collins, L. M. (2003).** Latent class and latent transition analysis. In J. A. Schinka, & W. F. Velicer (Eds.), *Handbook of Psychology: Vol. 2. Research Methods in Psychology*. Hoboken, NJ: Wiley, pp. 663-685.
- \***Hyatt (Lanza), S. L., & Collins, L. M. (2000).** Using latent transition analysis to examine the relationship between parental permissiveness and the onset of substance use. In J. Rose, L. Chassin, C. Presson, & S. J. Sherman (Eds.), *Multivariate Applications in Substance Use Research: New Methods for New Questions*. Hillsdale, NJ: Erlbaum, pp. 259-288.
- Collins, L. M., \***Hyatt (Lanza), S. L., & Graham, J. W. (2000).** LTA as a way of testing models of stage-sequential change in longitudinal data. In T. D. Little, K. U. Schnabel, & J. Baumert (Eds.), *Modeling longitudinal and multiple-group data: Practical issues, applied approaches, and specific examples*. Hillsdale, NJ: Erlbaum, pp. 147-161.

## Submitted

- Gopalan, M., \*Jung, J., \*Chiang, S.-C., Linden-Carmichael, A. N., & **Lanza, S. T. (under review).** College students' sense of belonging and alcohol use amidst COVID: Evidence from a 21-day daily diary study.
- \*\*Hochgraf, A. K., Barry, M. R., **Lanza, S. T., Jacobsen, M., & Neumark-Sztainer, D. (under review).** Constellations of Family Qualities and Psychological and Behavioral Health During Adolescence and Young Adulthood.

- Lanza**, S. T., & \*\*Hochgraf, A. K. (under revision). Time-varying effect modeling to address novel questions in developmental research.
- Lanza**, S. T., Linden-Carmichael, A. N., \*Wang, D., Bhandari, S., & \*Stull, S. W. (under review). A Personalized Data Dashboard to Improve Compliance with Ecological Momentary Assessments: Protocol for a Study to Compare EMA as Usual to EMA with a Data Dashboard Deployed in a Micro-Randomized Trial.
- Lanza**, S. T., Whetzel, C., & Bhandari, S. (under revision). Health and Well-Being among United States College Students during the COVID-19 pandemic: A daily diary study.
- Linden-Carmichael, A. N., \*Stull, S. W., & **Lanza**, S. T. (under review). Alcohol and Cannabis Use in Daily Lives of College-Attending Young Adults: Does Co-Use Correspond to Greater Reported Pleasure?
- Linden-Carmichael, A. N., \*Stull, S. W., \*Wang, D., Bhandari, S., & **Lanza**, S. T. (under review). Impact of Providing a Personalized Data Dashboard on Ecological Momentary Assessment Compliance among College Students who Use Substances: A Pilot Micro-randomized Trial
- \*\*Rahal, D., Fosco, G. M., & **Lanza**, S. T. (under review). Associations between affect variability, mean affect, and mental health.
- \*Mendu, S., Doyle Fosco, S. L., **Lanza**, S. T., & Abdullah, S. (under revision). "It's just so easy!": Expert Evaluation of a Voice Interface to Support Mindfulness Practice for Individuals with Chronic Pain. In Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems (CHI '23), April 23–28, 2023, Hamburg, Germany. ACM, New York, NY, USA, 17 pages.
- \*Mendu, S., Doyle Fosco, S. L., **Lanza**, S. T., & Abdullah, S. (under review). "Learning to Live with Pain": Designing a Voice Assistant to Deliver Evidence-Based Mindfulness Practices for Individuals Living with Chronic Pain. In Proceedings of the 2024 CHI Conference on Human Factors in Computing Systems (CHI '24), May 11–16, 2024, Honolulu, Hawaii, USA. ACM, New York, NY, USA, 20 pages.
- \*Shakya, E., Whetzel, C. A., **Lanza**, S. T., Bruening, M., & Na, Muzi (under review). Association between food insecurity and depressive symptoms in college students before and during the COVID-19 pandemic.
- \*Stull, S. W., Jones, D., Linden-Carmichael, A. N., Epstein, D. H., & **Lanza**, S. T. (under review). Frequency and intensity of daily substance use pleasure among young adult college students as a function of elevated depression symptoms.
- \*Stull, S.W., **Lanza**, S.T. (under review) Affect-laden risk profiles derived from two days of EMA predict substance use and quality of life three- and six-months after SUD treatment.
- Vasilenko, S. A., Espinosa-Hernandez, M. G., \*Smith, C. S., & **Lanza**, S. T. (under review). Disparities in Sexual Behavior by Race/Ethnicity and Gender Across Adolescence and Young Adulthood in a Nationally Representative U.S. Sample.

## Reports

- Lanza**, S. T., & Whetzel, C. (2020). Penn State CORE college relationships and experiences: Penn State descriptive statistics. Edna Bennett Pierce Prevention Research Center, Penn State.  
[https://www.prevention.psu.edu/uploads/files/CORE-Descriptive-Statistics\\_Overall-4\\_7\\_20.pdf](https://www.prevention.psu.edu/uploads/files/CORE-Descriptive-Statistics_Overall-4_7_20.pdf)
- Bray, B. C., **Lanza**, S. T., & Tan, X. (2012). *An introduction to eliminating bias in classify-analyze approaches for latent class analysis* (Technical Report No. 12-118). University Park, PA: The Methodology Center, The Pennsylvania State University, The Methodology Center.
- Lanza**, S. T., Tan, X., & Bray, B. C. (2011). *A technical introduction: A model-based approach to latent class analysis with distal outcomes*. (Technical Report No. 11-116). University Park, PA: The Pennsylvania State University, The Methodology Center.
- Lanza**, S. T., Foster, E. M., Taylor, T. K., & Burns, L. (2005). *Assessing the impact of measurement specificity in a behavior problems checklist: An IRT analysis*. (Technical Report No. 05-75). University Park, PA: The Pennsylvania State University, The Methodology Center.



- Lanza, S. T.** (2003). *Latent stage sequence analysis*. (Technical Report No. 03-55). University Park, PA: The Pennsylvania State University, The Methodology Center.
- Maldonado-Molina, M. M., Collins, L. M., & **Lanza, S. T.** (2002). *Using latent transition analysis to test the gateway hypothesis of drug use onset in the Add Health data* (Technical Report No. 02-54). University Park, PA: The Pennsylvania State University, The Methodology Center.
- Tan, Z., **Lanza, S. T.**, & Collins, L. M. (2001). *Modeling adolescent substance use using latent transition analysis: The Healthy for Life data set* (Technical Report No. 01-44). University Park, PA: The Pennsylvania State University, The Methodology Center.
- Hyatt (Lanza), S. L.**, & Collins, L. M. (2000). *Inference in latent transition models: Results from a simulation study*. (Technical Report No. 00-38). University Park, PA: The Pennsylvania State University, The Methodology Center.
- Hyatt (Lanza), S. L.**, & Collins, L. M. (1999). *Pubertal timing and the stages of drug use: Detailed results based on data augmentation*. (Technical Report No. 99-35). University Park, PA: The Pennsylvania State University, The Methodology Center.
- Hyatt (Lanza), S. L.**, Collins, L. M., & Schafer, J. L. (1999). *Using data augmentation to conduct hypothesis testing in LTA*. (Technical Report No. 99-34). University Park, PA: The Pennsylvania State University, The Methodology Center.
- Hyatt (Lanza), S. L.** (1998). *Modeling the onset of substance use using latent transition analysis: The effects of perceived parental permissiveness*. (Technical Report No. 98-29). University Park, PA: The Pennsylvania State University, The Methodology Center.
- Hyatt (Lanza), S. L.**, & Collins, L. M. (1998). *Estimation in latent transition models with missing data*. (Technical Report No. 98-22). University Park, PA: The Pennsylvania State University, The Methodology Center.

## Software and Multimedia Products

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- Led development of PROC LCA & PROC LTA, SAS procedure for estimating latent class and latent transition models.
- The Penn State Methodology Center (Producer). (2017). *1 & 1 on time-varying effect modeling with Stephanie Lanza* [Video]. Available from <https://www.youtube.com/watch?v=Bybg-aEeRGY&t=279s>
- The Penn State Methodology Center (Producer). (2016). *Introduction to the time-varying effect model with Stephanie Lanza* [Video]. Available from <https://www.youtube.com/watch?v=RmJDRWjp2ow>
- PROC LCA & PROC LTA (Version 1.3.2) [Software]. (2015). University Park: The Methodology Center, Penn State. Retrieved from <http://methodology.psu.edu>
- Lanza, S. T.**, Dziak, J. J., Huang, L., Wagner, A., & Collins, L. M. (2015). *PROC LCA & PROC LTA users' guide* (Version 1.3.2). University Park: The Methodology Center, Penn State. Retrieved from <http://methodology.psu.edu>
- Dziak, J. D., Yang, J., Tan, X., Bray, B. C., & Wagner, A. T., & **Lanza, S. T.** (2015). *LCA distal SAS macro users' guide* (Version 3.0). University Park: The Methodology Center, Penn State. Available from <http://methodology.psu.edu>
- LCA Distal SAS Macro (Version 3.0) [Software]. (2015). University Park: The Methodology Center, Penn State. Retrieved from <http://methodology.psu.edu>
- Lanza, S. T.**, Dziak, J. J., Huang, L., Wagner, A. T., & Collins, L. M. (2013). *Proc LCA & Proc LTA users' guide* (Version 1.3.0). University Park: The Methodology Center, Penn State. Available from <http://methodology.psu.edu>
- The Methodology Center, Penn State (Producer). (2013, January 22). *Methodology minutes: Latent class analysis (LCA) Part 2: Extensions of LCA with Stephanie Lanza and Bethany Bray* [Audio podcast]. Retrieved from <http://methodology.psu.edu/multimedia/podcast>
- The Methodology Center, Penn State (Producer). (2012, November 26). *Methodology minutes: Latent class analysis (LCA) Part 1: Common questions about LCA with Stephanie Lanza and Bethany Bray* [Audio podcast]. Retrieved from <http://methodology.psu.edu/multimedia/podcast>

- LCA Distal SAS Macro (Version 2.0) [Software]. (2012). University Park: The Methodology Center, Penn State. Retrieved from <http://methodology.psu.edu>
- Yang, J., Tan, X., **Lanza**, S. T., & Wagner, A. T. (2012). Lca distal SAS macro users' guide (Version 2.0). University Park: The Methodology Center, Penn State. Retrieved from <http://methodology.psu.edu>
- Dziak, J. J., **Lanza**, S. T., & Xu, S. (2011). *LCA Bootstrap SAS macro users' guide* (Version 1.1.0). University Park: The Methodology Center, Penn State. Retrieved from <http://methodology.psu.edu>
- Lanza**, S. T., Dziak, J. J., Huang, L., Xu, S., & Collins, L. M. (2011). *PROC LCA & PROC LTA users' guide* (Version 1.2.7). University Park: The Methodology Center, Penn State. Retrieved from <http://methodology.psu.edu>
- LCA Bootstrap SAS Macro (Version 1.1.0) [Software]. (2011). University Park: The Methodology Center, Penn State. Retrieved from <http://methodology.psu.edu>
- LCA Distal SAS Macro (Version 1.1.0) [Software]. (2011). University Park: The Methodology Center, Penn State. Retrieved from <http://methodology.psu.edu>
- PROC LCA & PROC LTA (Version 1.2.7) [Software]. (2011). University Park: The Methodology Center, Penn State. Retrieved from <http://methodology.psu.edu>
- Tan, X., **Lanza**, S. T., & Wagner, A. T. (2011). *LCA distal SAS macro users' guide* (Version 1.1.0). University Park: The Methodology Center, Penn State. Retrieved from <http://methodology.psu.edu>
- SAS Graphics Macros for Latent Class Analysis (Version 1.0) [Software]. (2010). University Park: The Methodology Center, Penn State. Retrieved from <http://methodology.psu.edu>
- Dziak, J. J., & **Lanza**, S. T. (2010). *SAS graphics macros for latent class analysis: Users' guide* (Version 1.0). University Park: The Methodology Center, Penn State. Retrieved from <http://methodology.psu.edu>
- Lanza**, S. T., Lemmon, D. R., Dziak, J. J., Huang, L., Schafer, J. L., & Collins, L. M. (2010). *PROC LCA & PROC LTA users' guide* (Version 1.2.5 beta). University Park: The Methodology Center, Penn State.
- PROC LCA & PROC LTA (Version 1.2.5 beta). University Park: The Methodology Center, Penn State. Retrieved from <http://methodology.psu.edu>
- Lanza**, S. T., Lemmon, D. R., Dziak, J. J., Huang, L., Schafer, J. L., & Collins, L. M. (2009). *PROC LCA & PROC LTA users' guide* (Version 1.2.3 beta). University Park: The Methodology Center, Penn State.
- PROC LCA & PROC LTA (Version 1.2.3 beta). University Park: The Methodology Center, Penn State. Retrieved from <http://methodology.psu.edu>
- Lanza**, S. T., Lemmon, D. R., Schafer, J. L., & Collins, L. M. (2008). *PROC LCA & PROC LTA users' guide* (Version 1.1.5 beta). University Park: The Methodology Center, Penn State.
- Lemmon, D. R., & **Lanza**, S. T. (2008). *PROC LCA & PROC LTA* (Version 1.1.5 beta). University Park: The Methodology Center, Penn State. Retrieved from <http://methodology.psu.edu>
- Collins, L.M., **Lanza**, S. T., Schafer, J. L., & Flaherty, B. P. (2004). *WinLTA 3.1*. University Park: The Methodology Center, Penn State. Retrieved from <http://methodology.psu.edu>
- Collins, L. M., **Lanza**, S. T., Schafer, J. L., & Flaherty, B. P. (2002). *WinLTA users' guide* (Version 3.0). University Park: The Methodology Center, Penn State.
- Collins, L. M., **Lanza**, S. T., & Schafer, J. L. (2002). *WinLTA users' guide for data augmentation*. University Park: The Methodology Center, Penn State.

## **Presentations**

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### **Invited Presentations and Workshops (Selected)**

- Lanza, S. T.** (2024, February). *Time-varying effect modeling to study developmental and dynamic processes*. Talk presented for the Penn State Clinical and Translational Science Institute's Biostatistics and Epidemiology and Research Design (BERD), Recent Topics in Research Methods Seminar Series.
- Lanza, S. T., & Bray, B. C.** (2024, February). *Introduction to latent class analysis*. Workshop presented for Statistical Horizons.
- Lanza, S. T., & Bray, B. C.** (2023, February). *Introduction to latent class analysis*. Workshop presented for Statistical Horizons.
- Lanza, S. T., & Bray, B. C.** (2022, April). *Introduction to latent class analysis*. Workshop presented for Statistical Horizons.
- Lanza, S. T.** (2022, March). *Time-varying effect modeling to study developmental and dynamic processes*. Talk presented at the Clemson University School of Mathematical and Statistical Sciences: Statistics and Probability Seminar.
- Lanza, S. T.** (2022, March). *Time-varying effect modeling to study developmental and dynamic processes*. Talk presented for the American Statistical Association, New York City Metro Area Chapter.
- Lanza, S. T.** (2022, February). *Statistics for the Good of the People*. Talk presented for the Penn State Women+ in Statistics and Data Science Group, Journeys in Statistics and Data Science Series. University Park, PA.
- Lanza, S. T., & Griffin, P.** (2021, July). *Consortium to Combat Substance Abuse: Progress aligned with Penn State's strategic plan*. Talk presented for the Penn State Strategic Plan Oversight Committee.
- Bray, B. C., & Lanza, S. T.**, (2021, July). *Latent class, latent profile, and latent transition analysis*. Workshop presented at the ICPSR Summer Program for the Institute for Social Research at the University of Michigan.
- Lanza, S. T., & Bray, B. C.** (2021, June). *Introduction to latent class analysis*. Workshop presented for Statistical Horizons.
- Bray, B. C., Dziak, J. J., & Lanza, S. T.** (2021, June). *Latent class analysis with time-varying covariate effects: A simulation study and empirical example of LCA-TVEM*. Paper presented at the Western North American Region of the International Biometric Society Annual Meeting.
- Lanza, S. T., & Bray, B. C.** (2020, December). *Introduction to latent class analysis*. Workshop presented for Statistical Horizons.
- Lanza, S. T.** (2020, November). *Prevention and Methodology: Where will the perfect marriage head next?* Talk presented for the Social Development Research Group Leaders in Prevention Science speaker series, Seattle, WA.
- Lanza, S. T.** (2020, August). Penn State's Consortium to Combat Substance Abuse (CCSA): Building Interdisciplinary Capacity to Address Complex Issues. Talk presented for the Joint Statistical Meetings.
- Lanza, S. T., & Whetzel, C.** (2020, June). *Impacts of COVID-19 on Penn State Undergraduate Students*. Talk presented for the HHD On Location: Home Edition, College of Health and Human Development, Pennsylvania State University, University Park, PA. [https://psu.mediaspace.kaltura.com/playlist/dedicated/159937501/1\\_r9j6pe2z/1\\_pkd8n3kc](https://psu.mediaspace.kaltura.com/playlist/dedicated/159937501/1_r9j6pe2z/1_pkd8n3kc)
- Lanza, S. T., & Kreager, D.** (2020, May). *Consortium to Combat Substance Abuse: Progress aligned with Penn State's strategic plan*. Talk presented for the Penn State Strategic Plan Oversight Committee.
- Lanza, S. T., & Bray, B. C.** (2019, December). *Introduction to latent class analysis*. Workshop presented for Statistical Horizons, Philadelphia, PA.
- Lanza, S. T.** (2019, November). *Consortium to Combat Substance Abuse: A Penn State Commitment to Impact*. Talk presented for Penn State's College of Health and Human Development Alumni Society Board Meeting. University Park, PA.
- Lanza, S. T.** (2019, September). *Consortium to Combat Substance Abuse*. Talk presented for the Penn State Board of Trustees – Outreach, Development, and Community Relations Committee. University Park, PA.
- Lanza, S. T.** (2019, July). *Consortium to Combat Substance Abuse: Progress aligned with Penn State's enhancing health strategic priority area*. Talk presented for the Penn State Strategic Plan Oversight Committee. University Park, PA.

- Lanza, S. T.** (2019, June). *Advancing evidence-based prevention: Penn State's Commitment*. Talk presented at the annual conference of Pennsylvania's Commonwealth Prevention Alliance. University Park, PA.
- Lanza, S. T.** (2019, May). *Enhancing the Reach and Impact of Drug Abuse and Behavioral Health Preventive Interventions: Mining Existing Data for Bold New Discoveries*. Roundtable discussant at the Society for Prevention Research 27th Annual Meeting: "Prevention Science in a Big Data World." San Francisco, CA.
- Lanza, S. T.** (2019, February). *The Consortium to Combat Substance Abuse*. Talk presented for Penn State's University Health Sciences Council, University Park, PA.
- Lanza, S. T.** (2019, January). *The Consortium to Combat Substance Abuse*. Panelist at the Penn State Town Hall, University Park, PA.
- Lanza, S. T.** (2018, December). *Introduction to latent class analysis*. Workshop presented for Statistical Horizons, Philadelphia, PA.
- Lanza, S. T., & Russell, M. A.** (2018, June). *Summer institute on innovative methods: Analysis of Ecological Momentary Assessment Data Using Multilevel Modeling and Time-Varying Effect Modeling*. Workshop presented at the Pennsylvania State University, University Park, PA.
- Lanza, S. T.** (2018, May). *Understanding and Advancing NIH-Funded Prevention Research: The Case of Substance Use Prevention*. Roundtable discussant at the Society for Prevention Research 26th Annual Meeting: "Optimizing the Relevance of Prevention Science to Systems," Washington, DC.
- Russell, M. A., & Lanza, S. T.,** (2018, April). *Analysis of ambulatory assessment data in behavioral medicine*. Workshop presented at the annual meeting of the Society for Behavioral Medicine, New Orleans, LA.
- Lanza, S. T.** (2017, December). *Introduction to latent class analysis*. Workshop presented for Statistical Horizons, Philadelphia, PA.
- Lanza, S. T.** (2017, April). *Introduction to latent class analysis*. Workshop presented at the Jack, Joseph, and Morton Mandel School of Applied Social Sciences, Case Western Reserve University, Cleveland, OH.
- Lanza, S. T.** (2016, November). *Time-varying effect modeling to study developmental and dynamic processes*. Population Research Institute: Innovative Methods Working Group lecture. University Park, PA.
- Lanza, S. T.** (2016, November). *Introduction to latent class analysis*. Workshop presented for Statistical Horizons, Philadelphia, PA.
- Lanza, S. T.** (2016, May). *Time as a key variable in health behavior research*. National Cancer Institute Workshop: Extending Methods in Dietary Patterns Research. Rockville, MD.
- Lanza, S. T.** (2016, May). *Using preventive interventions to better understand etiological mechanisms and risk for suicide*. Roundtable discussion at the annual meeting of the Society for Prevention Research, San Francisco, CA.
- Lanza, S. T.** (2016, April). *Advancing mixture modeling: Determinants of latent class membership*. Invited talk given at the Dartmouth College Institute for Health Policy and Clinical Practice. Hanover, NH.
- Lanza, S. T., & Bray, B. C.** (2016, April). *Introduction to Latent Class Analysis for Health Behavior Research*. Invited workshop given at the Penn State Department of Public Health Sciences, Hershey, PA.
- Lanza, S. T., & Vasilenko, S. A.** (2016, March). *Time-varying effect modeling in developmental research on adolescence*. Pre-conference workshop presented at the annual meeting of the Society for Research on Adolescence, Baltimore, MD.
- Lanza, S. T.** (2016, February). *Time-varying effect modeling to study developmental and dynamic processes*. CTSI-BERD Recent Topics in Research Methods Seminar. University Park, PA.
- Lanza, S. T.** (2016, January). *Time-varying effect modeling to study developmental and dynamic processes*. NIH Office of Disease Prevention, Medicine: Mind the Gap lecture. Bethesda, MD.
- Lanza, S. T., & Bray, B. C.** (2016, January). *Latent class, latent profile, and latent transition analysis*. Workshop presented at the T. Denny Sanford School of Social and Family Dynamics, Arizona State University, Phoenix, AZ.

- Lanza, S. T.** (2015, December). *Time-varying effect modeling to study developmental and dynamic processes*. Presented at the University of Pittsburgh Public Health Dynamics Lab, Pittsburgh, PA.
- Lanza, S. T.** (2015, November). *Introduction to latent class analysis*. Workshop presented for Statistical Horizons, Philadelphia, PA.
- Lanza, S. T., & Russell, M. A.** (2015, June). *Advanced analytics for intensive longitudinal data analysis*. Pre-conference workshop presented at the annual meeting of the Society for Ambulatory Assessments, University Park, PA.
- Lanza, S. T., & Vasilenko, S. A.** (2015, June). *Summer institute on innovative methods: Introduction to the time-varying effect model*. Workshop presented at the Pennsylvania State University, University Park, PA.
- Lanza, S. T.** (2015, April). *Introduction to latent class analysis*. Workshop presented for Statistical Horizons, Philadelphia, PA.
- Lanza, S. T.** (2014, November). *Introduction to latent class analysis*. Workshop presented for Statistical Horizons, Philadelphia, PA.
- Lanza, S. T.** (2014, June). *Intensive longitudinal data to advance behavioral research: Data integration opportunities and challenges*. Presented at Big Data to Knowledge (BD2K) Data Integration Meeting, Bethesda, MD.
- Lanza, S. T., & Bray, B. C.** (2014, May). *Integrating propensity scores with latent class analysis to identify determinants of latent class membership*. Presented at Statistics and Causality conference, Vienna, Austria.
- Lanza, S. T., & Vasilenko, S. A.** (2014, May). *Time-varying effect models in prevention science*. Pre-conference workshop presented at the annual meeting of the Society for Prevention Research, Washington, DC.
- Lanza, S. T.** (2014, May). *Time-varying effect models to analyze intensive longitudinal data*. Workshop presented at the Taste of Methodology, University Park, PA.
- Lanza, S. T.** (2014, April). *Introduction to latent class analysis*. Workshop presented for Statistical Horizons, Philadelphia, PA.
- Lanza, S. T.** (2013, December). *Introduction to latent class analysis*. Workshop presented for Statistical Horizons, Philadelphia, PA.
- Lanza, S. T.** (2013, October). *Make the Most of Your EMA Data: An Introduction to the Time-Varying Effect Model (TVEM)*. Presented at the Department of Psychological Sciences Alcohol Studies Program, University of Missouri, Columbia, MO.
- Bray, B. C., **Lanza, S. T., & Coffman, D. L.** (2013, October). *The causal effect of substance use latent class membership on a distal outcome*. Presented at the 10th International Conference on Health Policy Statistics, Chicago, IL.
- Coffman, D. L., Bray, B. C., **Lanza, S. T., & Dierker, L. C.** (2013, October). *Estimating the causal effect of a latent class treatment on binary and count outcomes*. Presented at the 10th International Conference on Health Policy Statistics, Chicago, IL.
- Lanza, S. T.** (2013, June). *Latent class and latent transition analysis*. Workshop presented at the Summer Quantitative Methods Series at Portland State University, Portland, OR.
- Lanza, S. T., & Bray, B. C.** (2013, June). *Summer Institute on Longitudinal Methods: Introduction to latent class analysis*. Workshop presented at the Pennsylvania State University, University Park, PA.
- Lanza, S. T., Butera, N. M., & Vasilenko, S.** (2013, March). *Defining "time" in time-varying effect models: Applications of TVEM to cross-sectional and panel data*. Presented at the Methodology Center, Penn State. University Park, PA.
- Lanza, S. T.** (2012, September). *Make the Most of Your EMA Data: An Introduction to the Time-Varying Effect Model (TVEM)*. Presented at the Department of Psychiatry Grand Rounds, Penn State. Hershey, PA.
- Lanza, S. T.** (2012, March). *Make the most of your EMA data: An introduction to the time-varying effect model*. Presented at the joint session of The Methodology Center and The Prevention Research Center, Penn State. University Park, PA.

- Lanza, S. T.** (2012, December). *An Introduction to latent class analysis*. Presented at the Taste of Methodology, University Park, PA.
- Lanza, S. T., & Bray, B. C.** (2012, October). *Latent class analysis*. Presented for Methods Work, Silver Spring, MD.
- Lanza, S. T.** (2012, July). *Latent class analysis in sociological research*. Invited workshop presented at the Center for Family and Demographic Research, Bowling Green, OH.
- Lanza, S. T.** (2012, April). *Latent class analysis*. Preconference workshop presented at the Society for Behavioral Medicine, New Orleans, LA.
- Lanza, S. T., & Piper, M. E.** (2012, March). *A demonstration of the time-varying effect model (TVEM): The dynamic role of dependence on craving during quit attempts*. Invited talk presented at pre-conference workshop at the Society for Research on Nicotine and Tobacco annual meetings, Houston, TX.
- Lanza, S. T.** (2012, March). *Make the most of your EMA data: An introduction to the time-varying effect model*. Presented at the joint session of The Methodology Center and The Prevention Research Center, Penn State. University Park, PA.
- Lanza, S. T.** (2012, February). *Causal inference in latent class analysis*. Penn State Population Research Institute, University Park, PA.
- Lanza, S. T., & Collins, L. M.** (2012, February). *Latent class analysis*. Presented for Methods Work, Pittsburgh, PA.
- Collins, L. M., & **Lanza, S. T.** (2011, August). *Latent class analysis*. Presented for Methods Work, Atlanta, GA.
- Also presented October, 2011 for Methods Work, Washington, DC.
- Lanza, S. T.** (2010, March). *At the Intersection of Statistics and the Behavioral Sciences: An Application of Latent Transition Analysis*. Presented at the Department of Statistics 2010 Alumni Workshop, University Park, PA.
- Lanza, S. T.** (2009, September). *Subgroup analysis from a latent class analysis approach*. Presented at the Interagency Federal Methodological Meeting: Subgroup Analysis in Prevention and Intervention Research, Bethesda, MD.
- Collins, L. M., & **Lanza, S. T.** (2009, June). *Summer Institute on Longitudinal Methods: Latent class and latent transition analysis*. Presented at the Pennsylvania State University, University Park, PA.
- Lanza, S. T.** (2008, December). *Data sharing requirements: The analyst's perspective*. Presented at the NIDA Crossroads: Sharing Social Environment and Genetic Data Meeting, Bethesda, MD.
- Collins, L. M., **Lanza, S. T., & Bray, B. C.** (2008, September). *Masterclass: Latent class analysis for cross-sectional and longitudinal data*. Presented at the Department of Mathematics and Statistics Postgraduate Statistics Centre of Lancaster University and the Economic and Social Research Council National Centre for Research Methods, Lancaster, United Kingdom.
- Lanza, S. T.** (2008, July). *Methodological/Statistical Issues in Grant Proposal Development*. Presented at the NIH Addiction Research Training Institute: Leadership Development Workshop, Atlanta, GA.
- Lanza, S. T.** (2008, July). *Modeling sexual risk behavior as a categorical latent variable*. Presented at the NIDA Sexual Acquisition and Transmission of HIV Cooperative Agreement program (SATH-CAP) Analytic Workgroup Meeting, Bethesda, MD.
- Lanza, S. T.** (2008, June). *Secondary data analysis*. Panel member at the Society for Prevention Research annual meeting, San Francisco, CA.
- Lanza, S. T., & Rhoades, B.** (2008, March). *Modeling multiple risks for child development: Variable-oriented and person-oriented approaches*. Presented at the joint Prevention and Methodology Centers seminar, The Pennsylvania State University, University Park, PA.
- Maldonado-Molina, M. M., & **Lanza, S. T.** (2008, March). *Latent transition analysis: Patterns of drug use among adolescents*. Presented at the Addictive & Health Behaviors Research Institute, Jacksonville, FL.
- Lanza, S. T.** (2007, November). *Latent transition analysis for modeling change over time: A demonstration of SAS PROC LTA*. Presented at the American Public Health Association conference, Washington, D.C.

- Collins, L. M., & Lanza, S. T. (2007, February). *Latent class analysis for cross-sectional and longitudinal data*. Workshop presented at the 36<sup>th</sup> ZA Spring Seminar. The University of Cologne, Germany.
- Lanza, S. T. (2006, October). *An introduction to latent class analysis and several extensions*. Presented at the Quantitative Social Sciences Initiative seminar series, The Pennsylvania State University, University Park, PA.
- Lanza, S. T. (2006, August). *Latent transition analysis: Modeling stage-sequential development*. Workshop presented at the Center for Advancing Longitudinal Drug Abuse Research, Summer Institute on Longitudinal Research, University of California, Los Angeles, CA.
- Collins, L. M., & Lanza, S. T. (2006, June). *Introduction to latent class and latent transition analysis*. Presented at the Institute on Developmental Science, University Park, PA.
- Lanza, S. T. (2006, May). *Latent transition analysis for modeling discrete change in longitudinal data*. Workshop presented at the Center for Advancing Longitudinal Drug Abuse Research, University of California, Los Angeles, CA.
- Lanza, S. T. (2006, April). *Latent class and latent transition analysis for substance use research*. Workshop presented at the Oregon Research Institute, Eugene, OR.
- Lanza, S. T. (2005, October). *Multilevel modeling with HLM*. Workshop presented at the National Recreation and Park Association conference, San Antonio, TX.
- Lanza, S. T. (2005, June). *Modeling drug-taking behavior in rats: Mixed models in application*. Workshop presented at the College on Problems of Drug Dependence conference, Orlando, FL.
- Lanza, S. T. (2004, June). *An HLM workshop*. Workshop presented at the APA Advanced Training Institute on the Study of Early Child Care Data, Chapel Hill, NC. Also presented August, 2003 at the APA Advanced Training Institute on the Study of Early Child Care Data, Chapel Hill, NC.

## Organized Sessions

- Lanza, S. T. (2019, May). *Opioid and Other Nonmedical Prescription Drug Use in the United States: Contemporary Trends in Use, Co-Use, and Correlates to Identify Opportunities for Prevention*. Organized session for the annual meeting of the Society for Prevention Research, San Francisco, CA.
- Lanza, S. T., Maldonado-Molina, M. M., Dishion, T., Mason, W. A., Mason, M. J., Modave, F., & Leve, L. D. (2017, May). *SPR mapping advances in prevention science (MAPS) V task force: Big data*. Annual Meetings of the Society for Prevention Research, Washington, D.C.
- Lanza, S. T. (2017, March). *Time-varying effect modeling to shed new light on the developmental course of nicotine product use in the US*. Organized session for the Annual Meeting of the Society for Research on Nicotine and Tobacco, Florence, Italy.
- Lanza, S. T., & MacKinnon, D. (2012, June). *New approaches to differential effects: Moving beyond traditional moderation using mixture models*. Symposium presented at the Society for Prevention Research Annual Meetings, Washington, DC.
- Lanza, S. T. (2011, June). *Innovations in latent class analysis: New Approaches to address classic questions*. Organized session for the Annual Meeting of the Society for Prevention Research, Washington, DC.
- Lanza, S. T. (2011, June). *Applications of novel methods for analysis of intensive longitudinal data in studies on drug use*. Organized session for the Annual Meeting of the Society for Prevention Research, Washington, DC.
- Lanza, S. T. (2008, May). *Advanced statistical modeling of sexual risk behavior over time*. Organized session for the Society for Prevention Research conference, San Francisco, CA.
- Lanza, S. T. (2006, June). *Advances in latent class and latent transition analysis*. Session chair at the annual meeting of the Society for Prevention Research, San Antonio, TX.

## National and International Conference Presentations

- \*Chiang, S.-C., Linden-Carmichael, A. N., & **Lanza**, S. T. (2024, June). *Daily Stress and Alcohol Use among Young Adult College Students: An Application of Latent Class Analysis to Daily Diary Data*. Paper presented at the annual meeting of the Research Society on Alcoholism.
- Lanza**, S. T., & Bray, B. C. (2024, June). *Latent Class Modeling in the Context of Intensive Longitudinal Data: Estimation Considerations*. Paper presented at the annual meeting of the Society for Ambulatory Assessments, Ann Arbor, MI.
- \*Stull, S. W. & **Lanza**, S. T. (2024, June). *Multilevel Latent Profile Analysis to Examine Experiences of Reward in Daily Life Among Adults in Opioid Addiction Recovery*. Poster presented at the annual meeting of the Society for Ambulatory Assessments, Ann Arbor, MI.
- \*Wang, D., Linden-Carmichael, A. N., \*Stull, S. W., & **Lanza**, S. T. (2024, June). *Examining Compliance in Ecological Momentary Assessment: Modeling the Autoregressive Nature of Moment-Level Missingness*. Poster presented at the annual meeting of the Society for Ambulatory Assessments, Ann Arbor, MI.
- \*Stull, S. W., & **Lanza**, S. T. (2024, June). *Daily Fluctuations in Motivation and Perceived Environmental Access of Nondrug Reward Among People in Opioid Use Disorder Recovery: Person- and Day-Level Associations with Experiencing Nondrug Reward*. Poster presented at the annual meeting of the College of Problems on Drug Dependence, Montreal, Canada.
- Andrushko, Y., & **Lanza**, S. T. (2024, May). *Ukrainian Citizens' Resilience, Acculturation, and Well-Being in the Context of Forced Migration*. Poster presented at the annual meeting of the Society for Prevention Research, Washington, DC.
- \*Wang, D., & **Lanza**, S. T., \*Stull, S. W., & Linden-Carmichael, A. N. (2024, May). *Latent Class Analysis of Daily Substance Co-Use Patterns in Young Adults: Leveraging Daily Diary Data to Identify Complex Phenotypes*. Poster presented at the annual meeting of the Society for Prevention Research, Washington, DC.
- Evans-Polce, R., Maggs, J. L., **Lanza**, S. T., & Patrick, M. E. (2024, May). *Negative Consequences Associated with Daily Alcohol Use as a Nonlinear Function of Number of Drinks in a Daily Diary Study*. Paper presented at the annual meeting of the Society for Prevention Research, Washington, DC.
- Doyle Fosco, S. L., Mendu, S., **Lanza**, S. T., & Abdullah, S. (2024, May). "Learning to Live with Pain": Designing a Voice Assistant to Deliver Mindfulness-Based Stress Reduction Practices for Individuals Living with Chronic Pain. Paper presented at the annual meeting of the Society for Prevention Research, Washington, DC.
- Bray, B. C., Dziak, J. J., & **Lanza**, S. T. (2024, March). *Innovative Latent Class Models for Nicotine and Tobacco Research: Online Resources of the Latent Class Analysis Knowledge Base*. Poster presented at the Society for Research on Nicotine and Tobacco Annual Meeting, Edinburgh, Scotland.
- Lanza**, S. T., Linden-Carmichael, A. N., Bray, B. C., & Jackson, K. (2024, March). *Modeling Contextual Heterogeneity in Young Adult Vaping Behaviors: A Multilevel Latent Class Analysis of Daily Diary Data*. Poster presented at the Society for Research on Nicotine and Tobacco Annual Meeting, Edinburgh, Scotland.
- \*Wang, D., **Lanza**, S. T., Stull, S. W., Dennis, M., Scott, C. K. (2023, June). *Momentary latent class membership to predict self-efficacy and subsequent substance use*. Poster presented at the annual meeting of the College of Problems on Drug Dependence, Denver, CO.
- \*Stull, S. W., **Lanza**, S. T., & Epstein, D. H. (2023, June). *Nondrug reward and recovery from addiction: Socio-spatial contexts, interindividual heterogeneity, and change over time*. Poster presented at the annual meeting of the College of Problems on Drug Dependence, Denver, CO.
- \*\*Rahal, D., Linden-Carmichael, A. N., & **Lanza**, S. T. (May, 2023) *Affect variability and frequency and intensity of alcohol use*. Paper presented at the Society for Prevention Research Annual Meeting, Washington, DC.
- Lanza**, S. T. (May, 2023). Panel Member in A. Romberg (Chair), *Building Positive Feedback Loops between Epidemiology and Prevention Intervention Research* [Roundtable]. Symposium presented at the Society for Prevention Research Annual Meeting, Washington, DC.



- \*\*Hochgraf, A. K., Berge, J. M., & **Lanza**, S. T. (May, 2023). *Implications of Lability and Level of Body Dissatisfaction across Days for Psychological and Behavioral Health Among Young Adults*. Poster presented at the Society for Prevention Research Annual Meeting, Washington, DC.
- \*\*Hochgraf, A. K., Berge, J. M., & **Lanza**, S. T. (April, 2023). *Developmental patterns of comorbidity between weight control behaviors and suicidal ideation across adolescence: New insights from TVEM* [Paper presentation]. Society for Research on Adolescence Annual Meeting, San Diego, CA.
- \*Sloan, C.J., **Lanza**, S.T., LoBraico, E.J., Feinberg, M.E., & Fosco, G.M. (March, 2023). Latent profiles of parent-child agreement and divergence in parental warmth and correlates with interparental conflict. In Fosco, G.M. (chair), *Lost in conceptualization? Seeking new insights by examining the function and context of parenting practices*. Paper presented at Society for Research on Child Development biennial meeting, Salt Lake City, UT, USA.
- \*Shakya, E., Whetzel, C. A., **Lanza**, S. T., & Na, M. (2022, June). *Association between food insecurity and depressive symptoms in college students before and during the COVID-19 pandemic*. Poster presented at American Society for Nutrition Annual Meeting, Virtual Conference.
- Lanza**, S. T., \*Stull, S. W., Linden-Carmichael, A. N., & Bray, B. C. (2022, June). Daily latent class membership and associations with acute consequences. In A. B. Neubauer (Chair), *Advances in Modeling Heterogeneity Within and Between Individuals in Intensive Longitudinal Data*. Paper presented at the Society for Ambulatory Assessments Annual Meeting, Virtual Conference.
- Linden-Carmichael, A. N., \*Van Doren, N., Bray, B. C., Jackson, K. M., & **Lanza**, S. T. (2022, June). *Daily substance use patterns and implications for substance-related consequences: An application of latent class analysis for daily diary data*. Poster presented at the Research Society on Alcohol Annual Meeting, Orlando, FL.
- \*Stull, S. W., Linden-Carmichael, A. N., & **Lanza**, S. T., Dennis, M.L., Scott, C.K. (2022, June). Time-varying effect modeling to estimate dynamic moderation effects: Affect as a moderator of craving and substance use across the first 90 days of recovery. In A. B. Neubauer (Chair), *Advances in Modeling Heterogeneity Within and Between Individuals in Intensive Longitudinal Data*. Paper presented at the Society for Ambulatory Assessments Annual Meeting, Virtual Conference.
- Lanza**, S. T. (2022, May). Discussant in I. Rhew (Chair), *Longer- and Shorter-Term Associations of Loneliness with Substance Use and Related Outcomes before and during the COVID-19 Pandemic* [Symposium]. Symposium presented at the Society for Prevention Research Annual Meeting, Seattle, WA.
- \*Hochgraf, A. K., **Lanza**, S. T., Fosco, G. M., & McHale, S. M. (2022, May). *Body dissatisfaction as a novel day-level risk factor for nicotine vaping among young adults during the COVID-19 pandemic* [Paper presentation]. Society for Prevention Research Annual Meeting, Seattle, WA.
- \*Hochgraf, A. K., **Lanza**, S. T., Fosco, G. M., & McHale, S. M. (2022, March). Age-varying associations between attempts to lose weight and nicotine vaping across adolescence: Results from a nationally representative sample [Paper presentation]. In A. K. Hochgraf (Chair), *Insights into Developmental Timing and Prevention of Adolescent Adjustment and Behavioral Problems from Time-Varying Effect Modeling* [Symposium]. Paper presented at the Society for Research on Adolescence Biennial Meeting, New Orleans, LA.
- \*McCauley, D. M., Fosco, G. M., & **Lanza**, S. T. (2022, March). Evaluating developmental change in links between adolescents' threat appraisals of interparental conflict and school adjustment, self-efficacy, and peer support: Insights from Time-Varying Effect Modeling. In A. K. Hochgraf (Chair), *Insights into Developmental Timing and Prevention of Adolescent Adjustment and Behavioral Problems from Time-Varying Effect Modeling* [Symposium]. Paper presented at the Society for Research on Adolescence Biennial Meeting, New Orleans, LA.
- Lanza**, S. T., \*Stull, S. W., Dennis, M. L., & Scott, C. K. (2021, July). *Momentary latent class membership during recovery from substance use disorder*. Paper presented at the Society for Ambulatory Assessment biannual meeting, Virtual Conference.
- Allen, H. K., Linden-Carmichael, A. N., & **Lanza**, S. T. (2021, June). *The age-varying association between sleep and alcohol use disorder across adulthood: Ages 18 to 65*. Poster presented at the annual meeting of the Research Society on Alcoholism Annual Meeting, Virtual Conference.

- \*Stull, S. W., Scott, C. K., Dennis, M. L., & **Lanza**, S. T. (2021, June). *Affect risk profiles derived from two days of EMA reports predict substance use three- and six-months after SUD treatment*. Poster presented at the annual meeting of the College of Problems on Drug Dependence, Virtual Conference.
- Linden-Carmichael, A. N., Allen, H. K., & **Lanza**, S. T. (2021, June). *A daily diary investigation of the socio-environmental context of simultaneous alcohol and marijuana use among young adults*. Paper presented at the annual meeting of the Society for Prevention Research, Virtual Conference.
- \*McCauley, D. M., Fosco, G. M., & **Lanza**, S. T. (June, 2021). *Developmental links between interparental conflict, adolescent threat appraisals, and internalizing problems*. Paper presented at the Society for Prevention Research, Virtual Conference.
- \*\*Jones, D. R., Allen, H. K., **Lanza**, S. T., & Graham-Engeland, J. E. (2021, April). *Daily associations between affect and alcohol use among adults: The importance of affective arousal*. Poster presented at the Society of Behavioral Medicine Annual Meeting & Scientific Sessions.
- \*\*Allen, H. K., Linden-Carmichael, A. N., & **Lanza**, S. T. (2020, October). *Alcohol use disorder and employment across adulthood: Age-varying associations*. Poster presented at the annual meeting of the American Public Health Association, San Francisco, CA.
- \*Van Doren, N., Linden-Carmichael, A. N., Bray, B.C., **Lanza**, S. T. (2020, June). *Examining daily patterns of substance use in young adults and their relation to daily stress and negative affect: An application of Latent Class Analysis to daily diary data*. Poster presented at the Modern Modeling Methods Conference. Storrs, CT. (Conference cancelled).
- \*\*Cloutier, R.M., \*Calhoun, B.H., **Lanza**, S.T., & Linden-Carmichael, A.N. (2020, May). *A daily-level examination on the role of social contexts in young adult cannabis use and consequences*. Poster accepted to the annual meeting of the Society for Prevention Research, Washington, D. C. [Poster cancelled due to COVID]. Selected for Society for Prevention Research Abstract of Distinction.
- \*Stull, S., \*Cloutier, R. M., Linden-Carmichael, A. N., & **Lanza**, S. T. (2020, May). *The role of parental problematic substance use in offspring co-morbid major depressive disorder and substance use disorder*. Poster presented at the annual meeting of the Society for Prevention Research, Washington, D.C.
- \*\*Allen, H.K., Linden-Carmichael, A.N., & **Lanza**, S.T. (2020, April). *The age-varying association between sleep and alcohol use disorder across adulthood: Ages 18 to 65*. In A.T. Brooks (Chair), *Sleep and alcohol use across the lifespan: A presentation supported by the SBM Sleep SIG*. Symposium presented at the Society of Behavioral Medicine Annual Meeting and Scientific Sessions, San Francisco, CA. (Conference cancelled).
- Linden-Carmichael, A. N., Masters, L. D., Luneke, A. C., & **Lanza**, S. T. (2019, June). *"Buzzwords": Crowd-sourcing young adult language to capture momentary feelings of alcohol and marijuana intoxication*. Paper presented at the annual meeting of the Society for Ambulatory Assessment, Syracuse, NY.
- Russell, M. A., Linden-Carmichael, A. N., **Lanza**, S. T., & Piasecki, T. (2019, June). *Affective Trends Prior to and After Drinking in an Ecological Momentary Assessment (EMA) Protocol: An Application of Three-Level Time-Varying Effect Modeling (TVEM)*. Paper presented at the annual meeting of the Society for Ambulatory Assessment, Syracuse, NY.
- Linden-Carmichael, A. N., Masters, L. D., & **Lanza**, S. T. (2019, June). *Simultaneous alcohol and marijuana use versus single-substance use occasions: Differences by perceived daily stress*. In J. Merrill and J. Wardell (Co-Chairs), *Advancements in research on the cannabis-alcohol link: Part 2 - Event-level antecedents and consequences of simultaneous use*. Symposium presented at the annual meeting of the Research Society on Alcoholism, Minneapolis, MN.
- Allen, H. K., Linden-Carmichael, A. N., **Lanza**, S. T., Vincent, K. B., & Arria, A. M. (2019, June). *Dynamic associations between alcohol use and academic burnout throughout doctoral programs: variations by degree type*. Poster presented at the annual meeting of the Research Society on Alcoholism, Minneapolis, MN.
- Bray, B. C., Dziak, J. J., & **Lanza**, S. T. (2019, May). *Combining latent class analysis with time-varying effect modeling: Understanding the epidemiology of alcohol use*. Paper presented at the 27<sup>th</sup> annual meeting of the Society for Prevention Research: "Prevention Science in a Big Data World," San Francisco, CA.

- Hochgraf, A. K., **Lanza**, S. T., & McHale, S. M. (2019, May). *Gender differences in the time-varying association between cigarette use and weight concerns across adolescence*. Poster presented at the 27<sup>th</sup> annual meeting of the Society for Prevention Research, San Francisco, CA.
- Lanza**, S. T., Masters, L. D., & Linden-Carmichael, A. N. (2019, May). *Contemporary Trends in Nonmedical Drug Use As a Function of Individual and Sociodemographic Characteristics: Ages 12 to 90*. In S. Lanza (Symposium Organizer), Opioid and Other Nonmedical Prescription Drug Use in the United States: Contemporary Trends in Use, Co-Use, and Correlates to Identify Opportunities for Prevention. Symposium presented at the 27<sup>th</sup> annual meeting of the Society for Prevention Research, San Francisco, CA.
- Linden-Carmichael, A. N., Masters, L. D., Allen, H. K. & **Lanza**, S. T. (2019, May). *Age-Varying Trends in Co-Use of Marijuana and Heavy Episodic Drinking: Implications for Nonmedical Prescription Drug Use*. In S. Lanza (Symposium Organizer), Opioid and Other Nonmedical Prescription Drug Use in the United States: Contemporary Trends in Use, Co-Use, and Correlates to Identify Opportunities for Prevention. Symposium presented at the 27<sup>th</sup> annual meeting of the Society for Prevention Research, San Francisco, CA.
- Gioia, S. A., Branstetter, S. A., **Lanza**, S. T. (2019, March). *Racial Discrimination in Healthcare and Implications for Smoking Likelihood*. Poster presented at the annual meeting of the Society for Behavioral Medicine, Washington, DC.
- Braymiller, J. L., & **Lanza**, S. T. (2019, February). *Age-varying associations between e-cigarette, hookah, and marijuana use among young people: Findings from the PATH study*. Paper presented in J. L. Braymiller (Chair), Innovative methods for research on e-cigarettes. Symposium conducted at the meeting of the Society for Research on Nicotine and Tobacco, San Francisco, CA.
- Rice, C. E., Fish, J. N., Russell, S. T., & **Lanza**, S. T. (2018, November). *Discrimination and Suicidal Behavior among Sexual Minority Adults in the United States*. Paper presented at the 2018 Gerontological Society of America Conference, Boston, MA.
- \*Mayer, L., **Lanza**, S. T., & Shalev, I. (2018, September). *Modeling the Age-Varying Link between Smoking and Telomere Length in a Large Sample of US Adults*. Poster presented at the 48<sup>th</sup> Meeting of the International Society of Psychoneuroendocrinology, Irvine, CA.
- Bray, B. C., Dziak, J. J., Patrick, M. E., & **Lanza**, S. T. (2018, June). *Causal analysis with latent class exposures using inverse propensity scores and BCH adjustment*. Poster presented at the 7<sup>th</sup> Annual Thomas R. Ten Have Symposium on Statistics in Mental Health, Chicago, IL.
- Linden-Carmichael, A. N., Russell, M. A., & **Lanza**, S. T. (2018, June). *An innovative approach to identify cut-points for problematic drinking in a nationally representative sample of young adults*. Poster presented at the annual meeting of the Research Society on Alcoholism, San Diego, CA.
- Vasilenko, S. A., Rice, C. E., & **Lanza**, S. T. (2018, May). *Age-varying prevalence of marijuana and opioid use in the United States during 2001-2002 and 2012-2013*. Paper presented at the annual meeting of the Society for Prevention Research, Washington, DC.
- Linden-Carmichael, A. N., Dziak, J. J., Vasilenko, S. A., & **Lanza**, S. T. (2018, April). *Dynamic features of problematic drinking behavior across age*. Poster presented at the annual meeting of the Society of Behavioral Medicine, New Orleans, LA.
- \*Potter, L., Eccleston, C. P., **Lanza**, S. T., Brondolo, E., Sliwinski, M. J., & Smyth, J. M. (2018, April). *Exploring Quantitative Approaches to Examining the Effects of Multiple Disadvantaged Social Status Indicator on Health*. Poster presented at the annual meeting of the Society of Behavioral Medicine, New Orleans, LA.
- \*Braymiller, J. L., Branstetter, S. A., & **Lanza**, S. T. (2018, February). *Contemporary Patterns of Nicotine Product Use in High School Aged Adolescents*. Poster presented at the annual meeting of the Society for Research on Nicotine and Tobacco, Baltimore, MD.
- \*Nye R., \*Braymiller J., **Lanza** S. T., Buxton O., & Branstetter S. (February 2018). *Age-varying Associations Between Nicotine Dependence and Sleep*. Poster presented at the annual meeting of the Society for Research on Nicotine and Tobacco, Baltimore, MD.

- \*\*Rice, C. E., \*\*Fish, J. N., Russell, S. T., & **Lanza**, S. T. (2017, October). *Discrimination and mental health among sexual minority adults in the United States: Implications for community prevention*. Paper presented at Transforming Care: Midwest Conference on LGBTQ Health Equity and HIV/AIDS, Columbus, OH.
- \*\*Bekiroglu, K., Lagoa, C. M., Lanza, S. T., & Sznaier, M. (2017, July). *An efficient parsimonious system identification algorithm for non-uniformly sampled data*. 20<sup>th</sup> IFAC World Congress, Toulouse, France.
- \*\*Fish, J. N., \*\*Rice, C. E., **Lanza**, S. T., & Russell, S. T. (2017, June). *Age-varying rates of sexual identity based discrimination from 18-65: Findings from a national sample*. Paper presented at Improving Population Health: Now, Across People's Lives and Across Generations to Come, Austin, TX.
- Linden-Carmichael, A., & **Lanza**, S. T. (2017, June). *Characterizing college and non-college young adult drinking behavior: Findings from a national Sample of 18- to 22-Year-Old Drinkers*. Poster presented at the annual meeting of the Research Society on Alcoholism, Denver, CO.
- Lanza**, S. T., Scott, S., Smyth, J., Almeida, D., & Sliwinski, M. (2017, June). *Finite mixture modeling to understand within-person affect variability*. Paper presented at the biannual meeting of the Society for Ambulatory Assessment Biennial Meeting, Luxembourg City, Luxembourg.
- \*\*Rice, C. E., \*\*Fish, J. N., Russell, S. T., & **Lanza**, S. T. (2017, June). *Discrimination and mental health among sexual minority adults in the United States: implications for community prevention*. Paper presented at Improving Population Health: Now, Across People's Lives and Across Generations to Come, Austin, TX.
- Russell, M. A., **Lanza**, S. T., & Piasecki, T. (2017, June). *Time-to-event analysis using time-varying effect modeling (TVEM) of intensive longitudinal data: Affect leading into and out of drinking episodes*. Paper presented at the biannual meeting of the Society for Ambulatory Assessment Biennial Meeting, Luxembourg City, Luxembourg.
- \*\*Bediako, P. T., Caldwell, L. L., **Lanza**, S. T., Wegner, L., Jacobs, J., & Miller, J. A. (2017, June). *Constructing latent classes of sexual abstinence motives endorsed by South African high school learners*. Paper presented at the Society for Prevention Research Annual Meeting, Washington, DC
- \*Braymiller, J. L. & **Lanza**, S. T. (2017, June). *Age trends in nicotine/tobacco product use in the United States: Differences across geographic region*. Poster presented at the annual meeting of the Society for Prevention Research, Washington, D.C.
- Deutsch, A., & **Lanza**, S. T. (2017, June). *Markers of adulthood and drinking behavior: What types of markers matter, and when?* Poster presented at the annual meeting of the Society for Prevention Research, Washington, D.C.
- \*\*Fish, J. N., \*\*Rice, C. E., **Lanza**, S. T., & Russell, S. T. (2017, June). *Using time-varying effect models to explore social etiology: Sexual minority discrimination and suicidality across the lifespan*. Paper presented at the annual meeting of the Society for Prevention Research, Washington, D.C.
- Linden-Carmichael, A. N., & **Lanza**, S. T. (2017, June). *An epidemiological latent class analysis of alcohol use behavior among adult drinkers*. Poster presented at the annual meeting of the Society for Prevention Research, Washington, D.C.
- \*\*Rice, C. E., Vasilenko, S. A., **Lanza**, S. T. (2017, May). *Examination of sexual minority health disparities across the life course*. Paper presented at the annual meeting of the Society for Prevention Research, Washington, D.C.
- \*Potter, L., **Lanza**, S. T., & Smyth, J. (2017, May). *Sociodemographic patterns of discrimination and health behaviors: Implications for health disparities*. Poster presented at the annual meeting of the Society for Prevention Research, Washington, D.C.
- Mama, S. K., Schmitz, K. H., Sciamanna, C. N., Smyth, J. M., **Lanza**, S. T., & Lengerich, E.J. (2017, May). *Partnering to Prevent and Control Cancer (PPCC): An academic-community partnership to address physical inactivity-related cancer health disparities in rural cancer survivors*. Poster presented at the Rural Cancer Control: Challenges and Opportunities Research Meeting, Memphis, TN.
- Mello, Z., Youngquist, A., & **Lanza**, S. T. (2017, April). *Time Perspective and Sexual Risky Behavior in Adolescents*. Poster presented at the annual meeting of the Society for Research on Child Development, Austin, TX.

- \*Braymiller, J. L., & **Lanza**, S. T. (2017, March). *Age-varying rates of nicotine product use throughout adolescence*. Paper presented at the annual meeting of the Society for Research on Nicotine and Tobacco Annual Meeting, Florence, Italy.
- Russell, M. A., Vasilenko, S. A., & **Lanza**, S. T. (2017, March). *Low family SES and smoking: Age-varying associations from adolescence to young adulthood*. Paper presented at the annual meeting of the Society for Research on Nicotine and Tobacco Annual Meeting, Florence, Italy.
- \*\*Rice, C. E., Vasilenko, S. A., Turner, A. N., Rosenberger, J. G., Davis, J. A., Fields, K. S., Ervin, M., & **Lanza**, S. T. (2016, October). "Gay Age": *Is it associated with risky behavior among MSM?* Transforming Care: Midwest Conference on LGBTQ Health Equity and HIV/AIDS, Columbus, OH.
- \*\*Rice, C. E., Vasilenko, S. A., Rosenberger, J. G., & **Lanza**, S. T. (2016, September). "Sexual Age" and Sexual Risk Behaviors among Men who have Sex with Men. STD Prevention Conference, Atlanta, GA.
- \*Braymiller, J. L., Russell, M. A., & **Lanza**, S. T. (2016, May). *Adolescent e-cigarette use: Age-varying prevalence and association with traditional cigarette smoking*. Poster presented at the annual meeting of the Society for Prevention Research, San Francisco, CA.
- Dziak, J. J., Bray, B. C., Huang, L., Wagner, A. T., & **Lanza**, S. T. (2016, May). *SPR tech demo: Free software for data analysis and experimental design from the Penn State Methodology Center*. Technology demonstration presented at the annual meeting of the Society for Prevention Research, San Francisco, CA.
- Lanza**, S. T. (2016, May). *Using big data to inform healthcare utilization, surveillance, and prevention research*. Discussant presentation given at the annual meeting of the Society for Prevention Research, San Francisco, CA.
- Lanza**, S. T., Vasilenko, S. A., & \*\*Russell, M. A. (2016, May). *Four definitions of "time" in time-varying effect modeling: Examples in marijuana use*. Paper presented at the annual meeting of the Society for Prevention Research, San Francisco, CA.
- Patrick, M. E., Kloska, D. D., Vasilenko, S. A., & **Lanza**, S. T. (2016, May). *Perceived friends' use as a risk factor for marijuana use across young adulthood*. Paper presented at the annual meeting of the Society for Prevention Research, San Francisco, CA.
- \*Rice, C. E., Vasilenko, S. A., **Lanza**, S. T., Fields, K. S., Ervin, M., & Turner, A. N. (2016, May). "Gay age" and recreational drug use among men who have sex with men. Poster presented at the annual meeting of the Society for Prevention Research, San Francisco, CA.
- \*\*Russell, M. A., \*Braymiller, J. L., & **Lanza**, S. T. (2016, May). *Time-varying effect of risk-perception on cigarette use among high school seniors*. Paper presented at the annual meeting of the Society for Prevention Research, San Francisco, CA.
- \*Evans-Polce, R. J., **Lanza**, S. T., & Maggs, J. L. (2016, March). *Social roles and excessive alcohol use across young adulthood*. Paper presented at the biannual meeting of the Society for Research on Adolescence.
- \*\*Russell, M. A., & **Lanza**, S. T. (2016, March). *Age-varying associations between witnessing violence, substance use, depression, and health from adolescence to young adulthood*. Paper presented at the biannual meeting of the Society for Research on Adolescence.
- Lanza**, S. T., Bray, B. C., & Dziak, J. J. (2015, May). *Comparing three approaches to latent class analysis with distal outcomes: A scientific summary*. Paper presented at the Society for Prevention Research 23<sup>rd</sup> Annual Meeting: "Integrating Prevention Science and Public Policy," Washington, DC.
- \*Boone, M., Vasilenko, S. A., & **Lanza**, S. T. (2015, May). *Racial differences in the time-varying effect of age of sexual debut on sexual risk behavior*. Paper presented at the Society for Prevention Research 23<sup>rd</sup> Annual Meeting: "Integrating Prevention Science and Public Policy," Washington, DC.
- Bray, B. C., Dziak, J. J., Huang, L., Wagner, A. T., & **Lanza**, S. T. (2015, May). *New online resources and software tools for analysis and design from the Penn State Methodology Center*. Technology demonstration presented at the Society for Prevention Research 23<sup>rd</sup> Annual Meeting: "Integrating Prevention Science and Public Policy," Washington, DC.

- Bray, B. C., **Lanza**, S. T., & Coffman, D. L. (2015, May). *Estimating causal effects with latent class variables: Exposures and outcomes*. Paper presented at the Society for Prevention Research 23<sup>rd</sup> Annual Meeting: "Integrating Prevention Science and Public Policy," Washington, DC.
- Cook, J. A., Lanza, S. T., \*Chu, W., Fiore, M., Baker, T., & Piper, M. (2015, May). *Time-varying treatment effects: The role of anhedonia in smoking quit attempts*. Paper presented at the Society for Prevention Research 23<sup>rd</sup> Annual Meeting: "Integrating Prevention Science and Public Policy," Washington, DC.
- Russell, M. A., & **Lanza**, S. T. (2015, May). *Violence exposure and adolescent substance use: Age-varying associations by gender*. Paper presented at the Society for Prevention Research 23<sup>rd</sup> Annual Meeting: "Integrating Prevention Science and Public Policy," Washington, DC.
- \*Zhang, J., Dziak, J. J., Bray, B. C., **Lanza**, S. T., & Zhang, M. (2015, May). *Extending latent class analysis with distal outcomes: Recommendations for adding control variables and moderators*. Paper presented at the Society for Prevention Research 23<sup>rd</sup> Annual Meeting: "Integrating Prevention Science and Public Policy," Washington, DC.
- \*Evans-Polce, R.J., Maggs, J., & **Lanza**, S.T. (2014, November). *Latent classes of substance use in college students: Hookah use, other tobacco products, marijuana, heavy drinking, and prescription drugs*. Paper presented at the 142nd American Public Health Association meeting, New Orleans, LA.
- Bray, B. C., Dziak, J. J., Huang, L., Wagner, A. T., & **Lanza**, S. T. (2014, May). *Innovative software for prevention scientists: SAS, R, and STATA, tools for analysis and experimental design*. Technology demonstration presented at the Society for Prevention Research Annual Meeting, Washington, DC.
- \*Evans-Polce, R.J., Vasilenko, S.A., & **Lanza**, S.T. (2014, May). Using time-varying effect modeling to examine differences in cigarette use, regular heavy episodic drinking, and marijuana use prevalence across age by gender and race/ethnicity. In Evans-Polce, R.J. (Chair), *A New Approach to Model the Etiology of Health Risk Behavior: Estimating Change over Historical Time, Developmental Time, and Time from an Event*. Paper presented at the Society for Prevention Research Annual Meeting, Washington, D.C.
- Vasilenko, S. A., & **Lanza**, S. T. (2014, May). Using the time-varying effect model to examine changes in predictors of multiple sexual partners from adolescence through young adulthood. In Henneberger, A. K. (Chair), *Preventing risky behavior across development: Applying innovative longitudinal methods to strengthen prevention science*. Paper presented to the Society for Prevention Research, Washington, D.C.
- Vasilenko, S. A., **Lanza**, S. T., & Barber, J. S. (2014, May). Patterns of condom use over time in sexual partnerships. In Evans-Polce, R. J. (Chair), *A new approach to the etiology of health risk behaviors: Estimating change over historical time, developmental time, and time from an event*. Paper presented to the Society for Prevention Research, Washington, D.C.
- Bekiroglu, K., Lagoa, C., Murphy, S. A., & **Lanza**, S. T. (2013, December). *A Robust MPC Approach to the Design of Treatments*. Paper presented at the 52nd IEEE Conference on Decision and Control, Firenze, Italy.
- \*Fairlie, A. M., **Lanza**, S. T., & Maggs, J. L. (2013, June). *Short-term stability and instability in drinking patterns among college students: A latent transition analysis*. Poster session presented at the annual meeting of the Research Society on Alcoholism, Orlando, FL.
- Bray, B. C., Huang, L., Yang, J., Dziak, J. J., & **Lanza**, S. T. (2013, May). *New SAS, R, and Stata software for prevention scientists: Tools for LCA, missing data, adaptive interventions, and EMA data*. Technology demonstration presented at the Society for Prevention Research 21st Annual Meeting: "The Science of Prevention: Building a Comprehensive National Strategy for Well-Being," San Francisco, CA.
- \*Butera, N. M., Bray B. C., & **Lanza**, S. T. (2013, May). Consequences of adolescent substance use latent class membership: Associations with young adult distal outcomes. Poster presented at the Society for Prevention Research 21st Annual Meeting: "The Science of Prevention: Building a Comprehensive National Strategy for Well-Being," San Francisco, CA.

- Coffman, D. L., Bray, B. C., **Lanza**, S. T., & Dierker, L. C. (2013, May). *Estimating the causal effect of a latent class treatment on binary and count outcomes*. Paper presented at the Society for Prevention Research 21st Annual Meeting: "The Science of Prevention: Building a Comprehensive National Strategy for Well-Being," San Francisco, CA.
- \*Fairlie, A. M., **Lanza**, S. T., & Maggs, J. L. (2013, May). *Do we adequately measure the alcohol-specific behavior of college students? Measurement implications from a latent class analysis*. In A. Fairlie (Chair), *Extreme alcohol use: Prevalence, patterns, predictors, and consequences*. Paper presented at the annual meeting of the Society for Prevention Research, San Francisco, CA.
- Lanza**, S. T., Bray, B. C., Coffman, D. L. (2013, May). *The causal effect of substance use latent class membership on a distal outcome*. Paper presented at the Society for Prevention Research 21st Annual Meeting: "The Science of Prevention: Building a Comprehensive National Strategy for Well-Being," San Francisco, CA.
- Lanza**, S. T., Vasilenko, S., Butera, N. M., & Kugler, K. (2013, May). *A latent class approach to measuring adolescent sexual behavior*. Paper presented at the Society for Prevention Research 21st Annual Meeting: "The Science of Prevention: Building a Comprehensive National Strategy for Well-Being," San Francisco, CA.
- Cooper, B. R., & **Lanza**, S. T. (2013, April). *Using a multidimensional approach to identify for whom head start is most effective*. Paper presented at the Biennial Meeting of the Society for Research in Child Development, Seattle, WA.
- \*Parr, A. D., **Lanza**, S. T., & Factor, M. (2013, April). *Examination of Leadership Personality Profiles Using Latent Class Analysis*. Poster presented at the 28<sup>th</sup> annual meeting of the Society for Industrial and Organizational Psychology, Houston, TX.
- \*Vasilenko, S. A., Kugler, K. C., Butera, N., & **Lanza**, S. T. (2013, April). *Patterns of Sexual Behavior in Adolescence: A Latent Class Approach*. Poster presented to the Society for Research in Child Development, Seattle, WA.
- Piper, M. E., Deiches, J. F., Baker, T. B., & **Lanza**, S. T. (2013, March). *Early Lapses in a Cessation Attempt: Lapse Contexts, Cessation Success and Predictors of Early Lapse*. Poster presented to the Society for Nicotine and Tobacco Research, Boston, MA.
- \*Vasilenko, S. A., **Lanza**, S. T., Liu, X., Yang, J., Li, R. & Piper, M. E. (2013, March). *Time-varying predictors of smoking after quit attempt: Application of a new approach to EMA data*. Poster presented to the Society for Nicotine and Tobacco Research, Boston, MA.
- \*Vasilenko, S. A., Liu, X., **Lanza**, S. T., Piper, M. E., & Li, R. (2012, June). *Smoking cessation fatigue in relapsers and successful quitters using a time-varying effects model*. Paper presented at the Society for Prevention Research Annual Meetings, Washington, DC.
- Coffman, D. L., Williams, J. S., Xu, S., **Lanza**, S. T., & Birch, L. L. (2012, June). *Do mothers' eating behaviors cause daughters' dieting? Drawing causal inferences from the Early Dieting in Girls study*. Paper presented at the Society for Prevention Research Annual Meetings, Washington, DC.
- Rhoades, B. L., & **Lanza**, S. T. (2012, June). *Who benefits most from Head Start? Using latent class moderation to examine differential treatment effects*. Paper presented at the Society for Prevention Research Annual Meetings, Washington, DC.
- Cleveland, M. J., **Lanza**, S. T., Ray, A., Turrisi, R., & Mallett, K. (2012, June). *Using latent transition analysis to assess differential treatment effects: Results from a randomized controlled trial of first-year college students*. Paper presented at the Society for Prevention Research Annual Meetings, Washington, DC.
- Lanza**, S. T., Mathur, C., & Rhoades, B. L. (2012, June). *Mixture regression modeling to explore differential effects of risk factors for adolescent delinquency*. Paper presented at the Society for Prevention Research Annual Meetings, Washington, DC.
- \*Butera, N., **Lanza**, S. T., & Coffman, D. L. (2012, June). *Effect of early sexual debut on adolescent delinquency latent class membership*. Poster presented at the Society for Prevention Research Annual Meetings, Washington, DC.
- Bray, B., **Lanza**, S., & Tan, X. (2011, June). *Classify-Analyze Approaches in Latent Class Analysis: The Importance of Inclusive Modeling*. Paper presented at the Annual Meeting of Society for Prevention Research, Washington, DC.

- Cleveland, M.J., **Lanza**, S. T., Ray, A., Turrisi, R., & Mallett, K. (2011, June). *First-year college students' drinking patterns: Does drinking latent class membership moderate parent- and peer-based intervention components?* Poster presented at the 34<sup>th</sup> Annual Meeting of the Research Society on Alcoholism, Atlanta, GA.
- Dziak, J., Huang, L., Tan, S., **Lanza**, S., Li, R., Collins, L., & Xu, S. (2011, June). *Software Advances from The Methodology Center at Penn State*. Technology demonstration presented at the Annual Meeting of the Society for Prevention Research in, Washington, DC.
- Dziak, J., **Lanza**, S., & Li, R. (2011, June). *Sensitivity and Specificity of Information Criteria for Model Selection in Prevention and Psychology Datasets*. Poster presented at the Annual Meeting of the Society for Prevention Research, Washington, DC.
- Lanza**, S., Coffman, D., Xu, S., & Almirall, D. (2011, June). *Causal Inference in Latent Class Analysis*. Paper presented at the Annual Meeting of the Society for Prevention Research, Washington, DC.
- Lanza**, S., Tan, X., & Li, R. (2011, June). *Joint Modeling of HIV Disease Course and Survival: Effects of Alcohol, Tobacco, and Drug Use*. Paper presented at the Annual Meeting of the Society for Prevention Research, Washington, DC.
- Maldonado-Molina, M. M., Tan, X., **Lanza**, S., & Wagenaar, A., (2011, June). *Effects of Beer Volume Tax on Alcohol-Related Mortality in 26 States from 1969 to 2004: An Application of a Varying Effects Model*. Paper presented at the Annual Meeting of the Society for Prevention Research, Washington, DC.
- \*Mathur, C., Stigler, M. H., Erickson, D. J., **Lanza**, S. T., Perry, C. L., Arora, M., & Reddy, K. S. (2011, June). *Socioeconomic differentials in stages of tobacco acquisition among adolescents in India*. Poster presented at the Annual Meeting of the Society for Prevention Research, Washington, DC.
- \*Shiyko, M., **Lanza**, S., Tan, X., Shiffman, S., & Li, R. (2011, June). *Between-Group Differences in Temporal Dynamics of Negative Affect, Self-Confidence, and Smoking Urges in Short-Term Successful Quitters and Relapsers: Applications of the Model with Varying Effects (MOVE)*. Paper presented at the Annual Meeting of the Society for Prevention Research, Washington, DC.
- Tan, X., **Lanza**, S., & Bray, B., (2011, June). *Latent Class Analysis with a Distal Outcome: Traditional and New Approaches*. Paper presented at the Annual Meeting of the Society for Prevention Research, Washington, DC.
- Moore, J. E., Coffman, D., & **Lanza**, S. T. (2011, March). *Drawing Causal Inferences Using Propensity Scores*. Paper presented at the Bi-Annual Meeting of the Society for Research on Child Development, Montreal, Canada.
- Collins, L. M., Dziak, J. J., Huang, L., **Lanza**, S. T., Li, R., & Tan, X. (2010, June). *New development of statistical software for prevention research in The Methodology Center*. Technology demonstration presented at the Society for Prevention Research conference, Denver, CO.
- Lanza**, S. T., & Rhoades, B. L. (2010, June). *Subgroup analysis from a latent variable perspective: Identifying latent classes of children at risk for adverse outcomes*. Paper presented at the Society for Prevention Research conference, Denver, CO.
- Rhoades, B. L. & **Lanza**, S. T. (2010, June). *Identifying subgroups of adolescents at risk for substance use: An application of latent class analysis*. Paper presented at the Society for Prevention Research conference, Denver, CO.
- Goodman, W. B., Crouter, A. C., **Lanza**, S. T., Cox, M. J., & Vernon-Feagans, L. (2010, March). *Paternal work stress and father-infant parenting quality: A latent profile analysis*. Paper presented at the International Conference on Infant Studies, Baltimore, MD.
- Dziak, J. J., Min, Y., & **Lanza**, S. T. (2009, May). *Sample size requirements in latent class analysis: The power of the bootstrap test for detecting a class*. Poster presented at the Society for Prevention Research conference, Washington, D.C.
- Maldonado, M. M., Komro, K. **Lanza**, S. T., Altman, D., & Prado, G. (2009, May). *Ethnic differences in stages of recent drug use among inner-city early adolescents*. Poster presented at the Society for Prevention Research conference, Washington, D.C.



- \*Min, Y., Dziak, J. J., & **Lanza**, S. T. (2009, May). *The effects of sample size and model characteristics on the accuracy of parameter and standard error estimation in latent class analysis*. Poster presented at the Society for Prevention Research conference, Washington, D.C.
- \*Rhoades, B. L., **Lanza**, S. T., & Greenberg, M. T. (2009, May). *Latent classes of demographic and familial risk for early executive function deficits*. Paper presented at the Society for Prevention Research conference, Washington, D.C.
- Lanza**, S. T. (2008, May). *Using latent transition analysis to model transitions in dating and sexual risk behavior*. Paper presented at the Society for Prevention Research conference, San Francisco, CA.
- Lemmon, D., Bray, B. C., **Lanza**, S. T., & Dziak, J. J. (2008, May). *New developments in SAS procedures for prevention research*. Technology demonstration presented at the Society for Prevention Research conference, San Francisco, CA.
- Goodman, W. B., Crouter, A. C., **Lanza**, S. T., Cox, M. J., Vernon-Feagans, L., & The Family Life Project Key Investigators (2007, November). *Paternal work experiences and father-infant interactions: a latent class analysis*. Paper presented at the National Council on Family Relations conference, Pittsburgh, PA.
- Bray, B. C., **Lanza**, S. T., & Collins, L. M. (2007, May). *Modeling the longitudinal relation between adolescent drinking and smoking behavior*. Poster presented at the Society for Prevention Research conference, Washington, D.C.
- Chung, H., **Lanza**, S. T., & Loken, E. (2007, May). *Latent transition analysis: Inference and estimation*. Poster presented at the Society for Prevention Research conference, Washington, D.C.
- \*Rhoades, B. L., **Lanza**, S. T., Nix, R. L., Greenberg, M. T., & Conduct Problems Prevention Research Group (2007, May). *Identifying early risk profiles for behavior and academic problems in late childhood: An application of latent class analysis*. Poster presented at the Society for Prevention Research conference, Washington, D.C.
- Maldonado, M. M., Prado, G., **Lanza**, S. T., Collins, L. M., & Canino, G. (2007, May). *Hispanic drug use: Patterns of substance use involvement among adolescents*. Poster presented at the Society for Prevention Research conference, Washington, D.C.
- Root, T. L., Collins, L. M., **Lanza**, S. T., Lemmon, D., & Schafer, J. L. (2007, May). *Latent class analysis for small samples*. Poster presented at the Society for Prevention Science conference, Washington, D.C.
- Jung, H., Schafer, J. L., Ridenour, T., & **Lanza**, S. T. (2007, May). *Using latent class variables as predictors*. Poster presented at the Society for Prevention Research conference, Washington, D.C.
- \*Rhoades, B. L., **Lanza**, S. T., Nix, R. L., Greenberg, M. T., & Conduct Problems Prevention Research Group (2007, March). *Profiles of early risk for externalizing problems and social competence in late childhood*. Poster presented at the Society for Research in Child Development conference, Boston, MA.
- Goodman, W. B., Crouter, A. C., **Lanza**, S. T., Cox, M. J., and The Family Life Project Key Investigators (2007, March). *Paternal work characteristics and the quality of father-infant interactions with low-income, rural families*. Paper presented at the Society for Research in Child Development conference, Boston, MA.
- Dorius, C. J., Crouter, A. C., **Lanza**, S. T., & Vernon-Feagans, L. (2006, November). *Maternal stimulation in low-income rural families: Does self-direction at work matter?* Paper presented at the National Council on Family Relations conference, Minneapolis, MN.
- Lemmon, D., & **Lanza**, S. T. (2006, June). *PROC LCA: A SAS procedure for latent class analysis*. Technology demonstration presented at the Society for Prevention Research conference, San Antonio, TX.
- Lanza**, S. T., Foster, E. M. (2005, June). *Using a behavioral problems checklist to assess risk of substance use: An IRT analysis of differential item functioning across gender*. Poster presented at the Society for Prevention Research conference, Washington, DC.
- Tanner, J. L., **Lanza**, S. T., Reinherz, H. Z., & Leis, J. A. (2005, February). *Emerging adulthood: An era of well-being or risk for poor mental health?* Paper presented at the Conference on Emerging Adulthood, Miami, FL.

- Lanza, S. T., & Collins, L. M.** (2004, July). *Latent stage sequence analysis*. Paper presented at the Society for Multivariate Analysis in the Behavioral Sciences, Jena, Germany.
- Lanza, S. T., Donny, E. C., & Balster, R. L.** (2004, June). *The increasing regularity of rat nicotine self-administration during acquisition*. Poster presented at the College on Problems of Drug Dependence, San Juan, PR.
- Lanza, S. T., Donny, E. C., Collins, L. M., & Balster, R. L.** (2003, June). *Analyzing the acquisition of drug self-administration using growth curve models*. Poster presented at the College on Problems of Drug Dependence, Bal Harbor, FL.
- Donny, E. C., **Lanza, S. T., Balster, R. L., Collins, L. M., Caggiula, A. R., & Rowell, P.** (2003, June). *Using growth models to relate acquisition of nicotine self-administration to break point and nicotinic receptor binding*. Poster presented at the College on Problems of Drug Dependence, Bal Harbor, FL.
- Lanza, S. T.** (2003, April). *Exploring gender differences and change over time in subtypes of adolescent depression using latent class and latent transition analysis*. Paper presented at the Society for Research on Child Development, Tampa, FL.
- Lanza, S. T., Collins, L. M., & Schafer, J. L.** (2001, June). *Model fit for incomplete categorical data: A substance use example*. Poster presented at the Society for Prevention Research conference, Washington DC.
- Feinberg, M., McHale, S., **Lanza, S., & Crouter, A. C.** (2001, April). *Sibling and parent relationship trajectories: The search for nonshared environmental processes in the family*. Paper presented at the Society for Research on Child Development conference, Minneapolis, MN.
- Collins, L.M., Schafer, J.L., **Lanza, S.T., & Flaherty, B.P.** (2001, January). *Latent transition analysis: Some new results using data augmentation*. Paper presented at the Quantitative Methods and Measurement Colloquium Series, University of California, Santa Barbara.
- Hyatt (Lanza), S. L., & Loken, E.** (2000, August). *Substance use risk types as latent classes*. Paper presented at the Add Health User's Workshop, Bethesda, MD.
- Collins, L.M., Schafer, J.L., **Hyatt (Lanza), S.L., & Flaherty, B.P.** (2000, July). *A demonstration of WinLTA*. Paper presented at the biennial meetings of the Society for Multivariate Applications in the Behavioral Sciences, London, England.
- Hyatt (Lanza), S. L., & Loken, E.** (2000, June). *Adolescent substance use risk profiles as latent classes*. Poster presented at the Society for Prevention Research conference, Montreal, Canada.
- Loken, E., **Hyatt (Lanza), S. L., & Porfeli, E.** (2000, June). *Can coaching help students qualify as gifted?* Paper presented at the American Psychological Society conference, Miami, FL.
- Maldonado, M. M., **Hyatt (Lanza), S. L., & Collins, L. M.** (2000, June). *Using latent transition analysis to test the gateway hypothesis of drug use onset in the Add Health data*. Poster presented at the Society for Prevention Research conference, Montreal, Canada.
- Collins, L.M., **Hyatt (Lanza), S.L., & Flaherty, B.P.** (1999, October). *Latent transition analysis: A method for estimating and testing stage-sequential models in longitudinal contingency tables*. Presented at Measuring Change in Complex Social Systems: Best Practices and State-of-the-Art Developments for Measuring Change in Organizations, College Park, MD.
- Collins, L. M., Schafer, J. L., **Hyatt (Lanza), S. L., & Flaherty, B. P.** (1999, July). *Using data augmentation in latent class models for longitudinal data: Estimation, standard errors and hypothesis tests involving combinations of parameters*. Paper presented at the European Meetings of the Psychometric Society, Lueneberg, Germany.
- Hyatt (Lanza), S. L., & Collins, L. M.** (1999, July). *Pubertal timing and the stages of drug use*. Paper presented at the Add Health User's Workshop, Bethesda, MD.
- Hyatt (Lanza), S. L., & Collins, L. M.** (1999, June). *Pubertal timing and the stages of drug use*. Poster presented at the Society for Prevention Research conference, New Orleans, LA.
- Collins, L. M., **Hyatt (Lanza), S. L., Flaherty, B. P., Schafer, J. L., & Hames, K.** (1999, June). *A demonstration of WinLTA 2.0*. Presented at the Annual Meetings of the Society for Prevention Research, New Orleans, LA.

- Hyatt (Lanza)**, S. L., Collins, L. M., & Schafer, J. L. (1998, October). *Gun availability and adolescent substance use: Using multiple imputation to get standard errors*. Poster presented at the New Methods for the Analysis of Change conference, University Park, PA.
- Hyatt (Lanza)**, S. L., Collins, L. M., Schafer, J., & Graham, J. W. (1998, June). *Using data augmentation to get standard errors of parameter estimates in Latent Transition Analysis*. Poster presented at the Society for Prevention Research conference, Park City, UT.
- Hyatt (Lanza)**, S. L., Jacobs, J., Tanner, J. L., & Eccles, J. (1998, April). *Explaining the decrease in adolescents' math and sports ability and interest: An example using Hierarchical Linear Modeling*. Poster presented at the Academic Educational Research Association conference, San Diego, CA.
- Collins, L. M., **Hyatt (Lanza)**, S. L., & Graham, J. W. (1998, February). *Perceived parental permissiveness as a risk factor for substance use onset: An example of Latent Transition Analysis*. Presented at the Institute for Social Research, University of Michigan, Ann Arbor, MI. Also presented February, 1998 at the Population Research Institute, Pennsylvania State University.
- Hyatt (Lanza)**, S. L., & Collins, L. M. (1998, February). *Substance use trajectories for adolescents with permissive parents: An example using Latent Transition Analysis*. Poster presented at the Society for Research on Adolescence conference, San Diego, CA.
- Jacobs, J. E. & **Hyatt (Lanza)**, S. L. (1998, February). *My parents are too strict: Relations between parenting practices and adolescent decision making*. Poster presented at the Society for Research on Adolescence conference, San Diego, CA.
- Collins, L. M., **Hyatt (Lanza)**, S. L., & Graham, J. W. (1997, June). *LTA as a way of testing models of stage-sequential development in longitudinal data*. Presented at Practical Approaches to Longitudinal and Multi-Group Data, Max Plank Institute for Human Development, Berlin, Germany.
- Hyatt (Lanza)**, S. L., & Collins, L. M. (1997, May). *Modeling advanced substance use using Latent Transition Analysis*. Poster presented at the Society for Prevention Research conference, Baltimore, MD.

### Select Recent Local Presentations

- \*Van Doren, N., Linden-Carmichael, A. N., Bray, B.C., **Lanza**, S. T. (February 2020). *An application of Latent Class Analysis to daily diary data: Examining daily patterns of substance use in young adults*. Presented at The Methodology Center, Pennsylvania State University.
- \*Braymiller, J. L., & **Lanza**, S. T. (2018, March). *Examining patterns of nicotine use in 18-24 year olds: Implications for prevention and policy*. Presented at the Penn State Graduate Research Exhibition, Pennsylvania State University.
- Lanza**, S. T. (2017, September). *Continuing to advance high-impact prevention science: Setting the course in a changing landscape*. Presented at the Edna Bennett Pierce Prevention Research Center, Pennsylvania State University.
- Dziak, J. J., Bray, B. C., **Lanza**, S. T. (2017, May). *Performance of multiple imputation for missing data in latent class analysis*. Poster presented at the Rao Prize Conference, Department of Statistics, Pennsylvania State University.
- Lanza**, S. T. (2017, April). *Finite mixture modeling to understand within-person affect variability*. Presented at the Department of Statistics, Pennsylvania State University.
- Bray, B. C., Dziak, J. J., & **Lanza**, S. T. (2015, March). *The good, the bad, and the ugly: What we know today about latent class analysis with distal outcomes*. Poster presented at the College of Health and Human Development Annual Research Forum, Pennsylvania State University.

### Teaching and Mentoring Experience

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#### Courses

- Developed new graduate courses: Introduction to Latent Class and Latent Transition Analysis; New Methods for Analysis of Intensive Longitudinal Data; Introduction to Time-Varying Effect Modeling

- Fall 2023 Instructor for undergraduate course: *Research Strategies for Studying Biobehavioral Health*  
(85 registered students)  
The Pennsylvania State University, Department of Biobehavioral Health  
SRTE (scale of 1 to 7): Overall quality of instructor: 7.0 (mode), 5.5 (median); Overall quality of course: Bimodal, 5.0 (median)
- Spring 2018 Instructor for graduate course: *Advanced Biobehavioral Research Strategies*  
The Pennsylvania State University, Department of Biobehavioral Health  
SRTE (scale of 1 to 7): Overall quality of instructor: 7.00, Overall quality of course: 7.00
- Spring 2017 Instructor for graduate course: *Advanced Biobehavioral Research Strategies*  
The Pennsylvania State University, Department of Biobehavioral Health  
SRTE (scale of 1 to 7): Overall quality of instructor: 6.67, Overall quality of course: 6.67
- Spring 2016 Instructor for graduate course: *Advanced Biobehavioral Research Strategies*  
The Pennsylvania State University, Department of Biobehavioral Health  
SRTE (scale of 1 to 7): Overall quality of instructor: 6.71, Overall quality of course: 6.83
- Spring 2015 Co-Instructor for graduate course: *Introduction to Time-Varying Effect Modeling*  
The Pennsylvania State University, Department of Human Development and Family Studies  
SRTE (scale of 1 to 7): Overall quality of instructor: 7.00, Overall quality of course: 7.00
- Fall 2013 Co-Instructor for graduate course: *New Methods for Analysis of Intensive Longitudinal Data*  
The Pennsylvania State University, Department of Human Development and Family Studies  
SRTE (scale of 1 to 7): Overall quality of instructor: 6.75, Overall quality of course: 6.25
- Spring 2011 Co-Instructor for graduate course: *Latent Class and Latent Transition Analysis*  
The Pennsylvania State University, Department of Human Development and Family Studies  
SRTE (scale of 1 to 7): Overall quality of instructor: 6.17, Overall quality of course: 5.83
- Spring 2009 Co-Instructor for graduate course: *Latent Class and Latent Transition Analysis*  
The Pennsylvania State University, Department of Human Development and Family Studies
- Spring 2007 Co-Instructor for graduate course: *Latent Class and Latent Transition Analysis*  
The Pennsylvania State University, Department of Human Development and Family Studies
- Spring 2001 Teaching assistant for undergraduate course: *Empirical Inquiry in Human Development*  
The Pennsylvania State University, Department of Human Development and Family Studies
- Fall 2000 Teaching assistant for graduate course: *Strategies for Data Analysis in Developmental Research*  
The Pennsylvania State University, Department of Human Development and Family Studies
- Fall 1998, Teaching assistant for graduate course: *Measurement in Human Development*  
Fall 2001 The Pennsylvania State University, Department of Human Development and Family Studies

### **Doctoral Advising (Dissertation Chair or Committee Member)**

- 2023- Cate Givens  
The Pennsylvania State University, Department of Biobehavioral Health  
Chair: Hannah Schreier
- 2023- Qiaofeng Ye  
The Pennsylvania State University, Department of Biobehavioral Health  
Chair: Idan Shalev
- 2021- Carlie Sloan  
The Pennsylvania State University, Department of Human Development and Family Studies

- Chair: Gregory Fosco
- 2019- Samuel Stull  
The Pennsylvania State University, Department of Biobehavioral Health  
Chair: Stephanie Lanza
- 2020-2023 David Reichenberger  
Title: *Evaluating the Consequences of Evening Light-Emitting Device Use on Sleep Health*  
The Pennsylvania State University, Department of Biobehavioral Health  
Chair: Anne-Marie Chang
- 2020-2022 Kyler Knapp  
Title: *Daily Affect Dynamics Among Residential Opioid Use Disorder Treatment and Nonclinical Comparison Groups*  
The Pennsylvania State University, Department of Human Development and Family Studies  
Chair: Hobart (Bo) Cleveland
- 2020-2022 Kristin Davis  
Title: *An Examination of Changes in Diet Quality, Measures of Inflammation, Depressive Symptoms, and Metabolic Syndrome Severity across the First Semester in College*  
The Pennsylvania State University, Department of Biobehavioral Health  
Chair: Kyle Murdoch
- 2019-2021 Devin McCauley  
Title: *Interparental Conflict and Threat Appraisals During Adolescence: Identifying Sensitive Periods of Risk for Psychological Maladjustment, Substance Use, and Diminished School Adjustment*  
The Pennsylvania State University, Department of Human Development and Family Studies  
Chair: Gregory Fosco
- 2018-2020 Bradley Trager  
Title: *Development and Validation of the Parental Approval Toward Alcohol Use Questionnaire: An In-depth Examination of Perceived Parental Approval in Underage Adults*  
The Pennsylvania State University, Department of Biobehavioral Health  
Chair: Robert Turrisi
- 2017-2020 Dusti Jones  
Title: *Does Arousal Matter for Positive Affect? An Exploration of High and Low Arousal Positive Affect in Everyday Life and Associations with Health Behaviors and Symptomology*  
The Pennsylvania State University, Department of Biobehavioral Health  
Chair: Jennifer Graham-Engeland
- 2016-2019 Ki (Kay) Eun Shin  
Title: *Dynamics of Symptom Relations in Major Depressive Disorder and Generalized Anxiety Disorder: Time-Series Network Analysis Approach*  
The Pennsylvania State University, Department of Psychology  
Chair: Michelle Newman  
(Director of minor project)
- 2015-2019 Jessica Braymiller  
Title: *Epidemiology of Nicotine Use Among Adolescents and Young Adults in the United States: Findings from the PATH Study*  
The Pennsylvania State University, Department of Biobehavioral Health  
Chair: Stephanie Lanza
- 2017-2019 Hio Wa (Grace) Mak  
Title: *The Developmental Significance of Parents and Peers for Individual Adjustment Across Adolescence*  
The Pennsylvania State University, Department of Human Development and Family Studies

- Chair: Gregory Fosco
- 2016-2019 Andrea Stroup  
 Title: *An Introduction to the Electronic Waterpipe*  
 The Pennsylvania State University, Department of Biobehavioral Health  
 Chair: Stephen Branstetter
- 2016-2019 Briana Sprague  
 Title: *Associations Between Physical and Cognitive Function in Healthy Older Adults*  
 The Pennsylvania State University, Department of Human Development and Family Studies  
 Chair: Lesley Ross
- 2014-2018 Sunghye (Jen) Cho  
 Title: *Parental Anxiety as an Environmental Context for Anxiety Symptom Development in Childhood*  
 The Pennsylvania State University, Department of Psychology  
 Chairs: Pamela Cole and Kristen Buss
- 2017-2018 Justin Petrovich  
 Title: *Functional Principal Component Analysis and Sparse Functional Regression*  
 The Pennsylvania State University, Department of Statistics  
 Chair: Matthew Reimherr
- 2015-2017 Danica Slavish  
 Title: *The Role of Neuroticism in Exposure and Reactivity to Daily Experiences and Nightly Sleep Quality*  
 The Pennsylvania State University, Department of Biobehavioral Health  
 Chair: Jennifer Graham-Engeland
- 2015-2016 Phylicia Bediako  
 Title: *Youth HIV Risk in South Africa: The Role of Abstinence Motives, Substance Use, and Intervention Programs*  
 The Pennsylvania State University, Department of Health Policy and Administration  
 Chair: Rhonda BeLue
- 2013-2015 Korkut Bekiroglu  
 Title: *From Data to Interventions: Using System Identification and Robust Control Algorithms to Design Effective Treatments*  
 The Pennsylvania State University, Department of Electrical Engineering  
 Chair: Constantino Lagoa
- 2013-2014 Jochebed Gayles  
 Title: *An Integrated Multidimensional Model of Individual Well-Being in Middle Adolescence*  
 The Pennsylvania State University, Department of Human Development and Family Studies  
 Chair: Mark Greenberg
- 2013-2014 Hanyu Yang  
 Title: *Statistical Models for Scalar Response with Longitudinal Covariates*  
 The Pennsylvania State University, Department of Statistics  
 Chair: Runze Li
- 2013-2014 Xiaoyu Liu  
 Title: *Joint Modeling of Longitudinal and Survival Data: New Models, Computing Techniques, and Applications*  
 The Pennsylvania State University, Department of Statistics  
 Chair: Runze Li
- 2011-2014 Xiaotian Zhu  
 Title: *Non-Parametric Finite Multivariate Mixture Models with Applications*  
 The Pennsylvania State University, Department of Statistics  
 Chair: David Hunter

- 2011-2013 Alissa Parr  
 Title: *Proactive Followers with Leaders in Mind: Unraveling the Mystery Behind this Oxymoron*  
 The Pennsylvania State University, Department of Psychology  
 Chair: Sam Hunter  
 (Director of minor project)
- 2009-2013 Jeffrey Woo  
 Title: *Optimization and Statistical Estimation for the Post Randomization Method*  
 The Pennsylvania State University, Department of Statistics  
 Chair: Aleksandra Slavković
- 2011-2012 Esra Kurum  
 Title: *Joint Modeling of Longitudinal Binary and Continuous Responses: New Models, Statistical Procedures, and Applications*  
 The Pennsylvania State University, Department of Statistics  
 Chair: Runze Li
- 2009-2011 Patricia Grabarek  
 Title: *Personality Typologies as Predictors of Effective Performance in Customer Service Jobs*  
 The Pennsylvania State University, Department of Industrial/Organizational Psychology  
 Chair: Alicia Grandey  
 (Director of minor project)
- 2007-2009 Melissa Tibbits  
 Title: *Engagement Within and Across Leisure Activities in Adolescence: Implications for Substance Use and Sexual Activity*  
 The Pennsylvania State University, Department of Human Development and Family Studies  
 Chairs: Ed Smith and Linda Caldwell
- 2006-2009 Brittany Rhoades  
 Title: *Demographic and Familial Risks for Early Executive Function Development: Contributions of a Person-Centered Perspective*  
 The Pennsylvania State University, Department of Human Development and Family Studies  
 Chairs: Mark Greenberg and Stephanie Lanza
- 2005-2008 Karen Auerbach  
 Title: *Alcohol and Marijuana Use Across the Transition to Marriage: Group Differences and Psychosocial Factors*  
 The Pennsylvania State University, Department of Human Development and Family Studies  
 Chairs: Jennifer Maggs and D. Wayne Osgood
- 2005-2007 Bethany Bray  
 Title: *Examining Gambling and Substance Use: Applications of Advanced Latent Class Modeling Techniques for Cross-Sectional and Longitudinal Data*  
 The Pennsylvania State University, Department of Human Development and Family Studies  
 Chair: Linda Collins
- 2003-2005 Mildred Maldonado-Molina  
 Title: *The Gateway Hypothesis of Substance Use: An Operational Definition, Alternative Progression Patterns, and Methodological Challenges*  
 The Pennsylvania State University, Department of Human Development and Family Studies  
 Chair: Linda Collins

### **PhD Qualifying Committee Member, Biobehavioral Health**

- 2024- Abi Dadzie  
 2022-2023 Danny Wang (chair)

2022-2023 Carlos Novoa  
 2022-2023 Qiaofeng Ye  
 2020-2021 Fernanda Lugo  
 2019-2020 Samuel Stull (chair)  
 2018-2020 Rodney Jones  
 2018 Sarah Gioia  
 2018 Laura Mayer  
 2016-2017 Emily Jones  
 2016-2017 Jessica Braymiller (chair)  
 2016-2017 Bradley Hastings  
 2016 Frank Materia

### **Methodology Mentor for NIH/NIDA Prevention and Methodology Training Program (T32-DA017629)**

#### *NIH Postdoctoral Fellows*

2024- Sara Miller, postdoctoral fellow  
 2022- Kristin Perry, postdoctoral fellow  
 2022-2023 Danny Rahal, postdoctoral fellow  
 2019-2021 Renee Cloutier, postdoctoral fellow  
 2018-2020 Hannah Allen, postdoctoral fellow  
 2013-2016 Rebecca Evans-Polce, postdoctoral fellow  
 2014-2015 Melissa Boone Brown, postdoctoral fellow  
 2014-2015 Michael Russell, postdoctoral fellow  
 2012-2014 Annie Fairlie, postdoctoral fellow  
 2011-2013 Sara Vasilenko, postdoctoral fellow  
 2011-2012 Keri Jowers, postdoctoral fellow  
 2009-2011 Suellen Hopfer, postdoctoral fellow

#### *NIH Predoctoral Fellows*

2023- Danny Wang, predoctoral fellow  
 2022- Holly Pham, predoctoral fellow  
 2021-2023 Carlie Sloan, predoctoral fellow  
 2019-2021 Devin McCauley, predoctoral fellow  
 2018-2020 Anna Hochgraf, predoctoral fellow  
 2017-2019 Hio Wa (Grace) Mak, predoctoral fellow  
 2016-2018 Jessica Braymiller, predoctoral fellow  
 2016-2018 Lindsey Potter, predoctoral fellow  
 2014-2016 Tomorrow Wilson, predoctoral fellow  
 2014-2016 Phylcia Bediako, predoctoral fellow  
 2008-2010 Caitlin Abar, predoctoral fellow  
 2007-2009 Melissa Tibbits, predoctoral fellow  
 2005-2007 Bethany Bray, predoctoral fellow  
 2005-2007 Brittany Rhoades, predoctoral fellow

### **Mentored Awards/Grants**

Maddie Politte-Corn, Graduate Student, Psychology, The Pennsylvania State University  
 Role: Mentor, CTSI TL1 Fellowship (2023-present)

Samuel Stull, Graduate Student, Biobehavioral Health, The Pennsylvania State University  
 Role: Primary mentor, College of Health and Human Development Limited Endowment Funds for Dissertation Research (2023-2024)



Samuel Stull, Graduate Student, Biobehavioral Health, The Pennsylvania State University

Role: Primary mentor, Ruth W. Ayres-Givens Scholarship (2022-2023)

Samuel Stull, Graduate Student, Biobehavioral Health, The Pennsylvania State University

Role: Primary mentor, Edward R. and Helen Skade Hintz Graduate Education Enhancement Fellowship Award (2022-2023)

Danny Wang, Graduate Student, Biobehavioral Health, The Pennsylvania State University

Role: Primary mentor, Graham Fellowship Award (2022-2023)

Samuel Stull, Graduate Student, Biobehavioral Health, The Pennsylvania State University

Role: Primary mentor, Ruth W. Ayres-Givens Scholarship (2021-2022)

Samuel Stull, Graduate Fellow, Department of Biobehavioral Health, The Pennsylvania State University

Role: NSF graduate fellowship primary mentor (8/1/20-7/31/23)

Anna Hochgraf, Graduate Fellow, Department of Human Development and Family Studies, The Pennsylvania State University

Role: F31 primary mentor NIH/NIDA (8/1/20-7/31/22)

Samuel Stull, Graduate Student, Biobehavioral Health, The Pennsylvania State University

Role: Primary mentor, Edward R. and Helen Skade Hintz Graduate Education Enhancement Fellowship Award (2020-2021)

Ashley Linden-Carmichael, Ph.D., Assistant Research Professor in Health and Human Development, The Pennsylvania State University

Role: K01 primary mentor NIH/NIAAA (5/1/19-present)

Scherezade Mama, Ph.D., Assistant Professor in Kinesiology, The Pennsylvania State University

Role: K07 mentor NIH/NCI (9/1/18-present)

Cara Rice, Ph.D., KL2 Scholar, The Pennsylvania State University

Role: KL2 mentor, Penn State Clinical and Translational Science Institute (1/1/18-9/1/19)

Jessica Braymiller, Graduate Student, Biobehavioral Health, The Pennsylvania State University

Role: Primary mentor, Ruth W. Ayres-Givens Scholarship (2018-2019)

Cara Rice, Ph.D., Postdoctoral Researcher, Biobehavioral Health, The Pennsylvania State University

Role: Primary mentor (9/1/15-8/31/17)

Korkut Bekiroglu, Ph.D., Postdoctoral Researcher, The Methodology Center, The Pennsylvania State University

Role: Primary mentor (7/1/15-12/31/16)

Sarah Dermody, Graduate Fellow, Department of Psychology, University of Pittsburgh

Role: F31 mentor (9/1/13-8/31/15)

Maggie Holland, Ph.D., Assistant Professor at School of Nursing, University of Rochester

Role: KL2 mentor (7/1/12-6/30/15)

Micere Keels, Ph.D., Assistant Professor, Dept. of Comparative Human Development, University of Chicago

Role: Methodological Mentor, W. T. Grant Scholars Career Development Award (2012-2017)

Emily Tanner-Smith, Ph.D., Research Associate, Peabody Research Institute, Vanderbilt University

Role: Consultant on Institute of Education Sciences grant (5/1/12-4/30/14)

Jieting Zhang, Graduate student visiting Methodology Center

Role: Acting dissertation advisor (9/1/12-12/31/13)

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## Professional Service

### Service to NIH

NIH Content Expert, Pathways to Prevention (P2P) workshop: *Strategies for Linking Youth Exposure to Preventive Interventions for Future Suicidal Behavior and Associated Morbidity and Mortality Outcomes* (9/2015).

#### NIH Grant Review

- "Collaborative Partnership between Research Centers in Minority Institutions (RCMI) and Alcohol Research Centers" U54 (RFA AA21-015) Review Council (5/2022)
- "Interventions to Prevent Electronic Nicotine Delivery Systems (ENDS) Use Among Adolescents" Review Council (2/2020)
- "Addressing Suicide Research Gaps" RFA Review Council (2/2018)
- NIH Research Conference Grants (Parent R13) Review Council (12/2017)
- "Accelerating the Pace of Drug Abuse Research Using Existing Epidemiology, Prevention, and Treatment Research Data" Review Council (6/2016)
- AIDS Research Review Committee (AIDS-RRC) Review Council (11/2014)
- "Seek, Test, Treat, and Retain Data Harmonization Coordinating Center" U01 (ZDA1 EXL T 13) Review Council (12/2013)
- "Accelerating the Pace of Drug Abuse Research Using Existing Epidemiology, Prevention, and Treatment Research Data" Review Council (6/2011)
- "SBIR Phase I Project – Improving Measures of Addiction Risk" Review Council (1/2011)
- Behavioral Genetics and Epidemiology (BGES) Study Section (6/2010)
- Cutting-Edge Basic Research Awards (CEBRA) Review Council (1/2008)
- Community Influences on Health Behavior (CIHB) Study Section (10/2005, 6/2006, 2/2007)

#### Conferences Organized

- 2021 Consortium to Combat Substance Abuse Annual Meeting, University Park, PA, May 3, 2021  
*Addressing Substance Use: Cross-Systems Solutions* (held virtually)
- 2019 Edna Bennett Pierce Prevention Research Center, University Park, PA, October 14, 2019  
*A Celebration of 20 Years of Prevention Research*
- 2019 Consortium to Combat Substance Abuse Inaugural Meeting, University Park, PA, April 29, 2019  
*Envisioning a Future Free from Addiction: Research, Programs, and Practice to Prevent Substance Abuse*
- 2017 Summer Institute on Innovative Methods, University Park, PA, June 29-30, 2017  
*Statistical Power Analysis for Intensive Longitudinal Studies*  
(presenters: Drs. Niall Bolger and Jean-Phillippe Laurenceau)
- 2016 Summer Institute on Innovative Methods, University Park, PA, July 21-22, 2016  
*Ecological Momentary Assessment (EMA): Investigating Biopsychosocial Processes in Context* (presenters: Drs. Joshua Smyth, Kristin Heron, and Michael Russell)
- 2015 Summer Institute on Innovative Methods, Rockville, MD, June 11-12, 2015  
*Introduction to Time-Varying Effect Models* (presenters: Dr. Stephanie Lanza and Dr. Sara Vasilenko)
- 2014 Summer Institute on Innovative Methods, Ann Arbor, MI, June 19-20, 2014  
*Experimental Design and Analysis Methods for Developing Adaptive Interventions: Getting SMART* (presenters: Dr. Daniel Almirall and Dr. Inbal Nahum-Shani)
- 2013 The Future of HIV Prevention and Treatment: Integrating Innovative Methods with Intervention Science, Bethesda, MD, September 12-13, 2013 (primary presenters: Dr. Seth Kalichman, Dr. Rick Altice, Dr. Linda Collins, Dr. Daniel Almirall); co-funded by NIDA, OAR, OBSSR
- 2013 Summer Institute on Innovative Methods, The Pennsylvania State University, June 27-28, 2013  
*Introduction to Latent Class Analysis* (presenters: Dr. Stephanie Lanza and Dr. Bethany Bray)
- 2012 Summer Institute on Innovative Methods, The Pennsylvania State University, June 20-21, 2012  
*Causal Inference using Propensity Scores* (presenter: Dr. Donna Coffman)

- 2012 Preconference Workshop for Society for Research on Nicotine and Tobacco, Houston, TX, March 13, 2012 (Drs. Stephanie Lanza and Megan Piper, Co-Organizers)  
*New Methods for Advancing Research On Tobacco Dependence*
- 2011 Summer Institute on Innovative Methods, Rockville, MD, September 8-9, 2011  
*The Multiphase Optimization Strategy* (presenter: Dr. Linda Collins)
- 2010 Summer Institute on Longitudinal Methods, The Pennsylvania State University, June 7-9, 2010  
*Analysis of Longitudinal Dyadic Data* (presenters: Dr. Niall Bolger, Dr. Jean-Philippe Laurenceau)
- 2009 Summer Institute on Longitudinal Methods, The Pennsylvania State University, June 29-July 1, 2009  
*Latent Class and Latent Transition Analysis* (presenters: Dr. Linda Collins, Dr. Stephanie Lanza)
- 2008 Summer Institute on Longitudinal Methods, The Pennsylvania State University, June 2-4, 2008  
*Statistical Mediation Analysis* (presenter: Dr. David Mackinnon)
- 2007 Summer Institute on Longitudinal Methods, The Pennsylvania State University, June 4-6, 2007  
*Mixed Models for Longitudinal Continuous and Dichotomous Data* (presenter: Dr. Donald Hedeker)  
*Practical Tools for Causal Inference* (presenter: Dr. Joseph Schafer)
- 2006 Summer Institute on Longitudinal Methods, The Pennsylvania State University, June 12-14, 2006  
*Causal Inference* (presenter: Dr. Christopher Winship)

### **Service to the Profession**

- 2024- Senior Editor, *Journal of Studies on Alcohol and Drugs*
- 2023 Abstract Reviewer, Society for Research on Adolescence 2024 annual meeting
- 2021 External Advisor on establishment of Prevention Science Graduate Program, Rutgers, The State University of New Jersey
- 2020-present Advisory Board Member, NIDA P50 "Parenting in the Context of Opioid Use" (Phil Fisher, Leslie Leve, Co-PIs)
- 2020-2021 Conference Planning Committee Member, Society for Prevention Research 2021 annual meeting
- 2020 External Reviewer, NIDA P30 "Center for Technology and Behavioral Health" (Lisa Marsch, PI)
- 2020 External Reviewer, Royal Netherlands Academy of Arts and Sciences
- 2019-2020 Conference Planning Committee Member, Society for Prevention Research 2020 annual meeting
- 2017-2020 Co-chair, Methods for Leveraging Big Data in Prevention Science: Mapping Advances in Prevention Science (MAPS) V Task Force, Society for Prevention Research
- 2015-2018 Member, Society for Prevention Research board of directors
- 2015-2018 Chair, Nominations Committee, Society for Prevention Research
- 2016 Program Committee Member, International Conference on Social Computing, Behavioral-Cultural Modeling, & Prediction and Behavior Representation in Modeling and Simulation (SBP-BRiMS)
- 2015-2017 Member, Society for Prevention Research awards committee
- 2012-2016 Associate Editor, *Prevention Science*
- 2014-2015 Planning Committee Member, Society for Ambulatory Assessments annual meeting
- 2015 Reviewer, Society for Prevention Science Early Career Preventionist Network (ECPN) poster contest
- 2013 Cambridge University Press [book proposal]
- 2010-2012 Editorial Board Member, *Prevention Science*
- 2005 Member, Methodology Planning Subcommittee for Society of Prevention Research annual meeting
- 2002-present Ad-hoc Reviewer: *Addiction*, *Alcoholism: Clinical and Experimental Research*, *American Journal of Public Health*, *American Psychologist*, *Annals of Behavioral Medicine*, *Archives of Pediatrics & Adolescent Medicine*, *Criminology*, *Development and Psychopathology*, *Developmental Psychology*, *Drug and Alcohol*

*Dependence, Journal of Adolescence, Journal of Adolescent Health; Journal of the Royal Statistical Society: Series A, Journal of Studies on Alcohol and Drugs, Journal of Medical Internet Research, Multivariate Behavioral Research, Nicotine and Tobacco Research, Organizational Research Methods, Prevention Science, Preventive Medicine, Psychological Methods, Psychology of Addictive Behaviors, Statistics and Medicine, Structural Equation Modeling*

## **Service to The Pennsylvania State University**

2023-present Search Committee Member, Assistant Professor of BBH (Penn State Cancer Institute co-fund)

2023-present Member, BBH Advisory Committee

2023-present Chair, BBH Promotion and Tenure Committee

2023-2024 Search Committee Member, Director of SSRI Consortium on Substance Use and Addiction

2023 Review Committee Member, Blavatnik National Awards – University downselect for Life Sciences

2022-2023 BBH Promotion and Tenure Committee Member

2022 Search Committee Member, Penn State Vice President for Outreach

2022 Search Committee Member, College of Health and Human Development, Director, Information Systems and Services

2022 Reviewer, Clinical and Translational Science Institute KL2 Early Career grant program

2021-2023 Executive Committee Member, Consortium on Substance Use and Addiction (CSUA)

2021 Search Committee Member, College of Health and Human Development Assistant Dean for Operations

2021 Search Committee Member, College of Liberal Arts, Director, Criminal Justice Research Center

2019-2021 Social Science Research Institute Steering Committee

2019-2020 University Health Services Research Hub Working Group

2019-2020 WPSU Opioid Project Advisory Panel

2019-2021 Advisory Board Member, Criminal Justice Research Center

2019-2020 BBH Search Committee Member, Endowed Professor of Caring and Compassion

2019-2020 Department of Health Policy and Administration Promotion and Tenure Committee

2017-2020 BBH Graduate Program Committee

2019-2021 SSRI Evidence to Impact Consortium Advisory Board

2017-2019 BBH Promotion and Tenure Committee Member

2018-2019 BBH Search Committee Member, SSRI Co-Hire for Consortium to Combat Substance Abuse

2018-2019 HDFS Search Committee Member, Professor and Bennett Chair

2018 PSU Strategic Planning Task Force to Address the Opioid Epidemic

2016-2017 Chair, Health and Human Development Task Force for formation of new research center, “Center for Individualized Health Research and Intervention”

2016-2017 Chair, Search Committee for BBH Interdisciplinary Methodologist

2016-2017 Co-chair, RCCI Communications and Onboarding Working Group

2016 Search Committee Member, Director of the Institute for Cyberscience (ICS)

2016 Chair, Health and Human Development Center Promotion Committee

2016 Panel Member, Graduate Student Alumni Society Professional Development Workshop

2015- SSRI/Population Research Institute’s Computational and Spatial Analysis Core, Internal Advisory Board

2015-2016 Co-chair, RCCI Data Governance Working Group

2015-2017 Advisory Council Member, Research Computing and Cyberinfrastructure (RCCI) Governance

2015-2016 Member, BBH Research Committee

2015 Search Committee Member, ISS Helpdesk Supervisor

2015	Reviewer, Clinical and Translational Science Institute's Novel Approaches to Big Data RFA
2013-2014	Planning Council, College of Health and Human Development Strategic Planning
2008-2014	Member and HHD Representative, Graduate Student Alumni Society (GSAS) Board of Directors
2013, 2014	Search Committee Member, Director of the Edna Bennett Pierce Prevention Research Center
2010-2014	Presented Workshop: Lanza, S. T. <i>Landing that academic job: The art of giving a job talk</i> <ul style="list-style-type: none"> <li>• October, 2014 at The Methodology Center seminar series, University Park, PA.</li> <li>• November, 2011 at the Graduate Student Association seminar series, University Park, PA</li> <li>• January, 2011 at The Methodology Center seminar series, University Park, PA.</li> <li>• March, 2011 at the Penn State Department of Adult Education, University Park, PA</li> <li>• November, 2010 at the Penn State Graduate Student Alumni Society Soft Skills Workshop Series, University Park, PA.</li> </ul>
2011-2014	Member, The Methodology Center Green Team
2011	Search Committee Member, supervising teacher at Bennett Family Center
2010, 2011	Panel Member, <i>Giving Poster Presentations</i> . Workshop presented for the Penn State Graduate Student Association
2005-2009	Editor, The Methodology Center Perspective newsletter

### **Continuing Education**

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2021	Graduate, Leadership Program: Changing the Future for Women at Penn State
2014	Project Management: Skills for Success. Learning Tree International (Certification received)