Stephanie T. Lanza, PhD

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Current Academic Position: The Pennsylvania State University

2016- *Professor*, Biobehavioral Health
2016- *Professor*, Human Development and Family Studies (courtesy appointment)

Education

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

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 (to study development or aging) 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 from 2004-2023. 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. Finally, since 2021 I have been Multiple Principal Investigator of a large NIDA-funded T32 program, the Prevention and Methodology Training Program, that trains 13 predoctoral and postdoctoral fellows per year in applying innovative methods to the prevention of substance use.

Honors and Awards

2026- President, Society for Ambulatory Assessment
2024- Senior Editor, *Journal of Studies on Alcohol and Drugs*
2024-2026 President-elect, Society for Ambulatory Assessment
2022-2025 Edna P. Bennett Faculty Fellow in Prevention Research
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

2017-2023 Director, Edna Bennett Pierce Prevention Research Center
2004-2022 Penn State: Scientific Director, The Methodology Center
2018-2021 Penn State: Inaugural Director, Consortium to Combat Substance Abuse
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

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; S. Lanza, E. Claus & R. Eiden, MPIs)
Prevention and Methodology Training (PAMT) Program
Project dates: 7/1/2026-6/30/2031
$11,514,728 (total anticipated)

Subcontract PI, Project Co-Investigator (NIH/NIDA R01 DA063537-01A1; PI: Linden-Carmichael)
Simultaneous alcohol and cannabis use in young adults: A micro-randomized trial to reduce substance use and related harms
Project dates: 5/15/2026-3/31/2031
$3,496,224

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

Investigator (NIH/NIDA R01 DA063537; PI: A. Linden-Carmichael)
Simultaneous Alcohol and Cannabis Use in Young Adults: A Micro-Randomized Trial to Reduce Substance Use and Related Harms
Project dates: 5/15/26-2/28/31
$3,496,224 (total anticipated)

Consultant (NIH/NIDA R03 DA060283; PI: K. Perry, University of Oregon)
Longitudinal Effects of Prenatal Cannabis and Tobacco Co-Exposure and Postnatal Adversity on Child Regulation: The Buffering Role of Sensitive Parenting
Project dates: 7/1/2025-6/30/2027

Under Review

Methodology Mentor (NIH/NIA K23; PI: Balthazar)
Specialized pro-resolving mediators, ADRD biomarkers, and sleep: A multilevel investigation of cognitive health in the Einstein aging study
Submitted: 6/12/2026

Methodology Mentor (NIH/NICHD F31; PI: Politte-Corn)
Examining neural sensitivity to social threat as a mechanism linking social anxiety and subsequent depressive symptoms across adolescence
Submitted: 4/8/2025 (Impact Score: 36; Percentile: 22)
Resubmitted: 10/8/2025 (Impact Score: 34; Percentile: 18)
$138,000

Methodology Mentor (NIH/NHLBI F31; PI: Dadzi-Adwoa)
Examining the associations between neighborhood quality and multidimensional sleep health across adolescence and young adulthood
Submitted: 12/8/2025
$168,000

Methodology Mentor (NIH/NICHD F31; PI: Baker)
Enduring effects of child maltreatment on white matter structural integrity and differential risk for substance use behaviors
Submitted: 12/8/2025
$92,653

Co-Mentor (NIH/NHLBI K01; PI: Lee)
Molecular drivers of weight regain
Submitted: 6/12/2025 (Impact Score: Not Discussed – Competitive)
Resubmitted 7/12/2026
$740,448

Mentor (NIH/NIAAA K23; PI: Linn)
Self-monitoring with ecological momentary assessment for relapse prevention among adults with alcohol use disorder
Submitted: 10/12/2025
$1,037,526

Mentor (NIH/NIDA K24; PI: McClure)
Mentoring investigators in precision medicine approaches to address tobacco-cannabis co-use
Submitted: 7/13/2026
$1,166,980

Advisory Board Member (NIH/HRSA T32; PI: D. Rabago)
Primary Care Research Fellowship
Submitted: 7/10/2026

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

2021-2026 **Multiple-Principal Investigator** (NIH/NIDA T32 DA017629; J. Maggs, MPI) Prevention and Methodology Training (PAMT) Program – $9,228,291

2023-2024 **Methodology Mentor** (PI: M. Politte-Corn) – Identifying Biomarkers of Social Threat Sensitivity and Unique Neurophysiological Profiles Associated with Internalizing Risk in Adolescents – Clinical and Translational Science Institute's Translational Research Training (TL1) Fellowship

2020-2024 **Multiple-Principal Investigator** (MPI: G. Fosco & S. Lanza) – Hillman Family Foundations: Adolescent Risk for Opioid Initiation: Family and Contextual Factors in Daily Life – $400,000

2018-2024 **Primary Mentor** (PI: A. Linden-Carmichael) – Simultaneous Alcohol and Marijuana Use: Momentary Influences and Consequences – $838,317 (K01 AA026854)

2023-2024 **Primary Sponsor** (PI: S. Stull, 8/1/23-6/15/24) – 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 – $77,467 (F31 DA057837)

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; P50 DA010075)

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

*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

200. Linden-Carmichael, A. N., Tao, X.*, Shipley, J.*, Contreras Perez, M.*, White, H. R., Sokolovsky, A. W., **Lanza**, S. T., & Jackson, K. (2026). Day-level latent classes of alcohol and cannabis use motives: Associations by level of use, combined use, and consequences. *Psychology of Addictive Behaviors.* Advance online publication. PMCID: PMC13353201

199. **Mongilio, J. M., Kcomt, L., **Lanza**, S. T., Pasman, E., Clift, J., & Evans-Polce, R. J. (2026). Author's response to "The need to advance the measurement of exposure to digital content." *Nicotine & Tobacco Research*, ntag095. https://doi.org/10.1093/ntr/ntag095 PMCID: Exempt

198. **Stull, S. W., Epstein, D. H., Gersz, M., Mondry, L., & **Lanza**, S. T. (2026). Daily motivation for and perceived accessibility of nondrug reward among people in long-term recovery from opioid use disorder. *Drug and Alcohol Dependence, 283,* 113154. https://doi.org/10.1016/j.drugalcdep.2026.113154 PMCID: In process

197. **Perry, K. J., Ostrov, J. M., Nickerson, A., Godleski, S., **Lanza**, S. T., Schuetze, P., Eiden, R. D. (2026). Early childhood temperamental and environmental risk factors for callous unemotional traits. *Clinical Psychological Science*. https://doi.org/10.1177/21677026251339196 PMCID: In process

196. **Lanza**, S. T. (2026). Innovative methods can accelerate advancements in research on alcohol and drugs. *Journal of Studies on Alcohol and Drugs, 87*(1), 7-9. https://doi.org/10.15288/jsad.25-00384 PMCID: Exempt.

195. Linden-Carmichael, A. N., **Lanza**, S. T., Sokolovsky, A., White, H. R., & Jackson, K. (2026). Heterogeneity of within-day simultaneous alcohol and cannabis use behaviors among young adults: A multilevel latent class analysis. *Journal of Studies on Alcohol and Drugs*. Advance online publication. https://doi.org/10.15288/jsad.25-00286. PMCID: PMC13034715

194. **Stull, S. W., Mogle, J., Panlilio, L. V., Wolchok, R., **Lanza**, S. T., Bertz, J. W., & Epstein, D. H. (2026). Between- and within-person predictors of missingness in intensive longitudinal data among people in outpatient treatment for opioid use disorder. *Psychological Assessment, 38*(6-7), 441-450. doi: 10.1037/pas0001454. PMCID: PMC12915691

193. **Stull, S. W., Wakely, M. E., Saunders, E. C., Jacobson, N. C., Marsch, L. A., **Lanza**, S. T. (2026). A qualitative study investigating the role of humor in supporting recovery from addiction. *Journal of Substance Use and Addiction Treatment, 181,* 209833. https://doi.org/10.1016/j.josat.2025.209833 PMCID: PMC12977182.

192. Evans-Polce, R. J., Arterberry, B., **Lanza**, S. T., & Patrick, M. E. (2025). Patterns of substance use on a given day in a national sample of U.S. young adults. *Addictive Behaviors, 168,* 108376. https://doi.org/10.1016/j.addbeh.2025.108376. PMCID: PMC12107437

191. **Hochgraf, A. K., Barry, M. R., **Lanza**, S. T., Jacobsen, M., & Neumark-Sztainer, D. (2025). Constellations of family qualities and links with psychological and behavioral health in adolescence and young adulthood. *Journal of Child and Family Studies, 34,* 2734-2748. https://doi.org/10.1080/07448481.2024.2346354 PMCID: PMC12470379

190. **Hochgraf, A. K., Fosco, G. M., & **Lanza**, S. T. (2025). Comorbidity between body dissatisfaction and nicotine vaping among young adults in college: A daily diary study. *Journal of American College Health, 73*(8), 2913-2919. https://doi.org/10.1080/07448481.2024.2346354 PMCID: PMC11540870

189. **Lee, S. A., Mukherjee, D., **Lanza**, S. T., & Almeida, D. M. (2025). Longitudinal profiles of affect dynamics in middle and later life: A latent transition analysis. *Psychology and Aging, 41*(2), 256-267. https://doi.org/10.1037/pag0000938 PMCID: PMC12944671

188. Linden-Carmichael, A. N., Chiang, S.-C., *Dyer, W., Bhandari, S., & **Lanza**, S. T. (2025). Comparing subjective effects and intoxication on simultaneous alcohol and cannabis use occasions relative to alcohol- or cannabis-only occasions. *Alcohol: Clinical and Experimental Research, 49*(8), 1818-1827. https://doi.org/10.1111/acer.70101. PMCID: PMC12452164

187. Mama, S. K., **Bhatia, M., Shi, J., Schmitz, K. H., Rogers, L. Q., Davis, T., Selman, J., Murley, B., Haas, B., Smyth, J. M., Sciamanna, C. N., **Lanza**, S. T., & McNeill, L. H. (2025). Integrating and adapting three evidence-based interventions to enhance physical activity and reduce psychosocial distress among rural breast cancer survivors: The Mind Your BEAT (MYB) study. *Translational Behavioral Medicine, 15*, ibaf078. https://doi.org/10.1093/tbm/ibaf078 PMCID: PMC13397021

186. **Mongilio, J. M., Kcomt, L., **Lanza**, S. T., Pasman, E., Clift, J., & Evans-Polce, R. J. (2025). Patterns of ENDS-related content exposure on social media among U.S. adolescents and young adults. *Nicotine and Tobacco Research, naf259.* https://doi.org/10.1093/ntr/ntaf259. PMCID: PMC12908594

185. **Rahal, D., Fosco, G. M., & **Lanza**, S. T. (2025). Associations between affect variability, mean affect, and mental health among college students during the COVID-19 pandemic. *Journal of American College Health, 19,* 1-13. https://doi.org/10.1080/07448481.2024.2449428 PMCID: PMC12304248

184. **Rahal, D., **Perry, K. J., & **Lanza**, S. T. (2025). Mental health modulates associations between institutional belonging and substance use risk. *Journal of Studies on Alcohol and Drugs*, *86*, 424-435. https://doi.org/10.15288/jsad.23-00382 PMCID: PMC12081173

183. *Shakya, E., Whetzel, C. A., **Lanza**, S. T., Bruening, M., & Na, M. (2025). Association between food insecurity and depressive symptoms in college students before and during the COVID-19 pandemic. *Journal of American College Health*. https://doi.org/10.1080/07448481.2025.2469149 PMCID: PMC12976918

182. *Sloan, C. J., Forrester, E. J., **Lanza**, S. T., Feinberg, M. E., & Fosco, G. M. (2025). Examining profiles of convergence and divergence in reports of parental warmth: Links to adolescent developmental problems. *Development and Psychopathology, 37*(2), 927-943. https://doi.org/10.1017/S0954579424000762. PMCID: PMC11473715

181. **Sloan, C. J., **Lanza**, S. T., Forrester, E. J., Feinberg, M. E., & Fosco, G. M. (2025). The role of interparental conflict in divergent perceptions of parenting. *Journal of Marriage and Family, 87*(5), 2157-2166. https://doi.org/10.1111/jomf.13108. PMCID: PMC12393783

180. *Stull, S.W., **Lanza**, S.T. (2025). Affect-laden risk profiles derived from two days of EMA predict substance use and quality of life three- and six-months after SUD treatment. *Journal of Substance Use and Addiction Treatment, 170*, 209613. https://doi.org/10.1016/j.josat.2024.209613 PMCID: PMC11938211.

179. **Stull, S. W., Marsch, L. A., & **Lanza**, S. T. (2025). Daily profiles of nondrug reward and their association with daily outcomes for people in recovery from opioid use disorder: An application of latent profile analysis applied to intensive longitudinal data. *Drug and Alcohol Dependence, 271,* 112646. doi.org/10.1016/j.drugalcdep.2025.112646. PMCID: PMC12952496

Featured on Recovery Research Institute's July 2025 issue of the Recovery Bulletin

178. Wilding, H. E., *Dyer, W. G., Sutara, B., Lee, S. H., Linden-Carmichael, A. N., **Lanza**, S. T., & Lee, H. H. (2025). Genetic susceptibility to depressive symptoms in middle-aged to older Americans: time-varying effects and effect modification by early psychosocial factors. *Social Psychiatry and Psychiatric Epidemiology*, 10.1007/s00127-025-02987-0. Advance online publication. https://doi.org/10.1007/s00127-025-02987-0. PMCID: in process

177. **Andrushko, Y. & **Lanza**, S. T. (2024). Exploring resilience and its determinants in the forced migration of Ukrainian citizens: A psychological perspective. *International Journal of Environmental Research and Public Health. 21*(11), 1409. https://doi.org/10.3390/ijerph21111409 PMCID: PMC11593913

176. Evans-Polce, R. J., Maggs, J. L., **Lanza**, S. T., & Patrick, M. E. (2024). Negative consequences associated with daily alcohol use as a nonlinear function of number of drinks in a daily diary study. *Drug and Alcohol Dependence, 256,* 111089. PMCID: PMC11862988

175. Gopalan, M., *Jung, J., *Chiang, S.-C., Linden-Carmichael, A. N., & **Lanza**, S. T. (2024). College students' sense of belonging and alcohol use amidst COVID-19: Evidence from a 21-day daily diary study. *PlosONE, 19*(12), e0310496. doi: 10.1371/journal.pone.0310496. PMCID: PMC11614200

174. **Hochgraf, A. K., Berge, J. M., & **Lanza**, S. T. (2024). Age-varying associations between attempts to change weight and suicidal ideation among adolescents in the United States. *Preventive Medicine, 182,* 107946. PMCID: PMC11084873

173. **Lanza**, S. T., Linden-Carmichael, A. N., *Wang, D., Bhandari, S., & *Stull, S. W. (2024). A personalized data dashboard to improve compliance with ecological momentary assessments in college students: Protocol for a study to compare EMA as usual to EMA with a data dashboard deployed in a micro-randomized trial. *JMIR Research Protocols, 13*(1), e57664. DOI: 10.2196/57664 PMCID: PMC11589493

172. **Lanza**, S. T., Whetzel, C., & Bhandari, S. (2024). Health and well-being among United States college students during the COVID-19 pandemic: A daily diary study. *Interactive Journal of Medical Research,* 13e45689. http://dx.doi.org/10.2196/45689 PMCID: PMC11380054

171. Linden-Carmichael, A. N., *Stull, S. W., & **Lanza**, S. T. (2024). Alcohol and cannabis use in daily lives of college-attending young adults: Does co-use correspond to greater reported pleasure? *Addictive Behaviors, 159,* 108130. PMCID: PMC11381134

170. Linden-Carmichael, A. N., *Stull, S. W., *Wang, D., Bhandari, S., & **Lanza**, S. T. (2024). Impact of providing a personalized data dashboard on ecological momentary assessment compliance among college students who use substances: A pilot micro-randomized trial. *JMIR Formative Research, 8,* e60193. doi:10.2196/60193. PMCID: PMC11659699

169. *Pham, H. T., **Lanza**, S. T., Claus, E. D., Heim, C. M., Noll, J. G., Shenk, C. E., & Schreier, H. M. C. (2024). Sex differences in the roles of nicotine use and puberty on youth C-reactive protein levels: Effects above and beyond adversity. *Brain, Behavior, & Immunity - Health*, *40,* 100841. PMCID: PMC11381809 https://doi.org/10.1016/j.bbih.2024.100841

168. **Rahal, D., Linden-Carmichael, A. N., & **Lanza**, S. T. (2024). Affect variability in relation to alcohol use frequency, intensity, and concurrent cannabis use among college students during the COVID-19 pandemic. *Addiction Research & Theory, 32*(5), 375-383. doi: 10.1080/16066359.2023.2284209 PMCID: PMC11495852

167. **Toledo, M.J., Zawadzki, M. J., Scott, S. B., Johnson, J. A., **Marcusson-Clavertz, D., Kim, J., **Lanza**, S. T., Almeida, D. M. J., Sliwinski, M., & Smyth, J. M. (2024). Exploring the utility of a real-time approach to characterizing within-person fluctuations in everyday stress responses. *Stress and Health, 40*(6), e3501. doi: https://doi.org/10.1002/smi.3501 PMCID: PMC11636429

166. *Mendu, S., Doyle Fosco, S. L., **Lanza**, S. T., & Abdullah, S. (2023). Designing voice interfaces to support mindfulness-based pain management. *Digital Health, 9.* doi: 10.1177/20552076231204418 PMCID: PMC10588404

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 PMCID: PMC12186768 [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 PMCID: N/A

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/s11121-022-01448-3. PMCID: PMC10090219

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. PMCID: PMC8714699

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Software and Multimedia Products

Led development of PROC LCA & PROC LTA, SAS procedure for estimating latent class and latent transition models.

Shen, Y., **Lanza**, S. T., & Bray, B. C. (2025). *Using R software for latent class analysis and latent profile analysis – workshop exercises.* The Methodology Center, Penn State.

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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

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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

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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

Invited Presentations and Workshops (Selected)

Lanza, S. T., Bray, B. C., & *Shen, Y. (2026, April). *Multilevel latent class analysis (MLCA) to model complex behavior in intensive longitudinal data*. Pre-conference course presented at the Annual Meeting of the Society for Behavioral Medicine, Chicago, IL.

Lanza, S. T., & Bray, B. C. (2026, January). *Introduction to latent class analysis*. Workshop presented for Statistical Horizons.

Bray, B. C., & **Lanza**, S. T. (2025, October). *Introduction to latent transition analysis*. Workshop presented for Statistical Horizons.

Lanza, S. T., & Bray, B. C. (2025, March). *Introduction to latent class analysis*. Workshop presented for Statistical Horizons.

Bray, B. C., & **Lanza**, S. T. (2024, September). *Introduction to latent transition analysis*. Workshop presented for Statistical Horizons.

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

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 Annual Meeting, 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 Annual Meeting, 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). C*ausal 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 36th 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 resented 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

Perry, K. J., Schuetze, P., **Lanza**, S., Kelm, M. & Eiden, R. D. (2027, April). *Between- and within-person sensitive parenting moderation effects of prenatal and early childhood adversity and respiratory sinus arrhythmia.* Paper abstract submitted for presentation at the Society for Research on Child Development conference, Atlanta, GA.

Perry, K. J., Schuetze, P., **Lanza**, S., Kelm, M. & Eiden, R. D. (2026, October). *Prenatal cannabis and tobacco co-exposure, postnatal adversity, and respiratory sinus arrythmia: Modeling between- and within-person effects from infancy to early school age.* Paper abstract accepted for presentation at the Society for Psychophysiological Research Annual Conference, Nova Scotia, Canada.

Perry, K. J., Schuetze, P., **Lanza**, S., Godleski, S. A., Sartini-Rideout, A., & Eiden, R. D. (2026, July). *Heterogeneity in early school age respiratory sinus arrythmia and associations with multiple reporters of aggressive behavior.* Paper presented at the International Society for Research on Aggression 2026 World Meeting, St. Catharines, Canada.

Perry, K. J., Schuetze, P., **Lanza**, S. & Eiden, R. D. (2026, June) *Prenatal cannabis and tobacco coexposure in relation to developmental stability and change in baseline respiratory sinus arrythmia from infancy to early school age.* Paper presented at the Developmental Neurotoxicology Society Annual Conference, Washington DC.

*Xiong, X., **Pesigan, I. J., **Lanza**, S. T., & Chow, S.-M. (2026, May). *Multilevel VAR models with integrated trends for measurement burst designs.* Paper presented at the Modern Modeling Methods Conference, New York, NY.

Stull, S. W., & **Lanza, S. T. (2026, May). Affect-laden momentary risk profiles and substance use among adults in early recovery from addiction. Plaitano, E. (Chair). *Meeting people where they are: using smartphones to assess and modify substance use in daily life*. Paper presented at the Collaborative Perspectives on Addiction Conference, St. Louis, MO.

Lanza, S. T., & Bray, B. C. (2026, May). *Approaches to conducting multilevel latent class analysis: Estimation considerations and recommended best practices*. Paper presented at the Society for Prevention Research Annual Meeting, Washington, DC.

*Shen, Y., *Wang. D. H., Chang. A., & **Lanza**, S. T. (2026, May). *A multilevel latent class analysis of moment- and person-level engagement and compliance patterns in ecological momentary assessment: Associations with sleep.* Paper presented at the Society for Prevention Research Annual Meeting, Washington, DC.

Tao, X., **Contreras-Pérez, M. E., Clement, A. C., Janssen, T., Gabrielli, J., Colby, S. M., Wray, T., Meisel, M., **Lanza, S. T., & Jackson, K. (2026, May). *Daily social media use in adolescents: An exploration of alcohol content exposure through a day-level person-centered approach*. Paper presented at the Society for Prevention Research Annual Meeting, Washington, DC.

*Falcone, R. S., Fosco, S. L. D., Colaianne, B. A., & **Lanza**, S. T. (2026, April). *Trainable correlates of mental health and flourishing: Purpose can serve a promotion and prevention role in college students' well-being.* Poster presented at the Prevention Research Center's Compassion Week poster session, University Park, PA.

*Wang, D., & **Lanza**, S. T. (2026, April). *Momentary engagement and compliance profiles in ecological momentary assessments: a multilevel latent class analysis*. Poster presented at the annual meeting of the Society for Behavioral Medicine, Chicago, IL.

*Xiong, X., **Pesigan, I. J., Oravecz, Z., **Lanza**, S. T., & Chow, S.-M. (2026, April). *BurstiVAR for vector autoregressive modeling without trend specification.* Poster presented at the Prevention Research Center's Compassion Week poster session, University Park, PA.

*Shen, Y., **Lanza**, S. T. & Chang, A.-M., (2026, April). *Exploring the direct and indirect associations of screen use and sleep with depressive symptoms in college students.* Poster presented at the annual meeting of the Society for Behavioral Medicine, Chicago, IL.

Mongilio, J. M., Kcomt, L., **Lanza, S. T., Pasman, E., Clift, J., & Evans-Polce, R. J. (2026, March). *Patterns of ENDS-related content exposure on social media among U.S. adolescents and young adults*. Poster presented at the annual meeting of the Society for Research on Nicotine and Tobacco, Baltimore, MD.

Miller, S., Maggs, J., & **Lanza, S. T. (2025, November). *A latent class analysis of health characteristics among non-drinking middle-aged and older adults*. Poster presented at the annual meeting of the Gerontological Society of America, Boston, MA.

Perry, K. J., **Lanza**, S. T., & Eiden, R. D. (2025, June). *Time-varying associations between female smokers' depressed mood and level of cigarette use from the second trimester of pregnancy to 24-months of child age*. Poster presented at the annual meeting of the College on Problems of Drug Dependence, New Orleans, LA.

Stull, S. W., Marsch, L. A., Epstein, D. H., & **Lanza, S. T. (2025, June). *Daily enjoyable activities during recovery from opioid use disorder: Characterizing types of daily activities using multilevel latent class analysis*. Poster presented at the annual meeting of the College on Problems of Drug Dependence, New Orleans, LA.

Tao, X., Janssen, T., Gabrielli, J., **Contreras Perez, M. E., Colby, S., Wray, T., Meisel, M., **Lanza, S. T., & Jackson, K. (2025, June). *Associations between multilevel latent classes of daily social media activities and media exposure to alcohol consequences among adolescents*. Poster presented at the annual meeting of the Research Society on Alcoholism, New Orleans, LA.

Lanza, S. T., *Shen, Y., Bhandari, S. & Bray, B. C. (2025, May). *What (kinda) day is it? Who am I? Multilevel latent class analysis to estimate classes at two levels*. Poster presented at the annual meeting of the Society for Ambulatory Assessments, Leuven, Belgium.

Stull, S. W., Marsch, L. A., Epstein, D. H., & **Lanza, S. T. (2025, May). *Daily enjoyable activities and quality of life among people recovering from addiction: latent class analysis applied to daily diary data*. Poster presented at the annual meeting of the Society for Ambulatory Assessments, Leuven, Belgium. (withdrawn)

*Wang, D., Linden-Carmichael, A. N., & **Lanza**, S. T. (2025, May). *Examining yesterday's substance use and psychological mood on missingness in today's EMA*. Poster presented at the annual meeting of the Society for Ambulatory Assessments, Leuven, Belgium.

Bayly, B. L., Shrestha, G., Cooper, B. R., & **Lanza**, S. T. (2025, May). *A reanalysis of the Strengthening Families Program: Time-varying effect modeling to identify dosage thresholds*. Paper presented at the annual meeting of the Society for Prevention Research, Seattle, WA.

Linden-Carmichael, A. N., **Lanza**, S. T., Sokolovsky, A., & Jackson, K. (2025, May). *Uncovering the heterogeneity of simultaneous alcohol and cannabis use at the day-level among young adults: A multilevel latent class analysis*. Poster presented at the annual meeting of the Society for Prevention Research, Seattle, WA.

*Mendu, S., Doyle Fosco, S., **Lanza**, S., & Abdullah, S. (2025, April). *"Learning to live with pain": designing a voice assistant to support mindfulness-based pain management.* Paper presented at the Association of Computing Machinery CHI 2025 Conference on Human Factors in Computing Systems, Yokohama, Japan.

*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, Minneapolis, MN.

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.

*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.

*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.

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.

*Mendu, S., Doyle Fosco, S. L., **Lanza**, S. T., & Abdullah, S. (2023, April). *"Alexa, i'm in pain!": Development of a voice interface to support mindfulness practice for individuals with chronic pain.* Poster presented at the annual meeting of the Computing Research Association-Widening Participation, San Francisco, CA.

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 annual meeting of the Society for Prevention Research, 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 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 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 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 48th 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 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*. 20th 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 senior*s. 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 Annual Meeting, 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 Annual Meeting, 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 Annual Meeting, 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 Annual Meeting, 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 Annual Meeting, 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 Annual Meeting, 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 Annual Meeting, 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 Annual Meeting, 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 Annual Meeting, 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 Annual Meeting, 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 Annual Meeting, 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 Annual Meeting, 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 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 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, 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 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 Local Presentations

Lanza, S. T. (2025, April). *Latent class modeling in the context of intensive longitudinal data: Estimation considerations*. Paper presented at the QuantDev seminar series, Pennsylvania State University.

*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

Courses

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

Graduate course redesigned (Spring 2025): *Advanced Biobehavioral Research Strategies*

Spring 2026 Instructor for undergraduate course: *Research Strategies for Studying Biobehavioral Health*
(24 registered students)

The Pennsylvania State University, World Campus, Department of Biobehavioral Health
SEEQ (scale of 1 to 5): Overall structure of the course promoted meaningful learning experience: 5 (mode), 5 (median); Instructor created a welcoming and inclusive environment: 5 (mode), 5 (median)

Spring 2025 Instructor for graduate course: *Advanced Biobehavioral Research Strategies*
(6 registered students)
The Pennsylvania State University, Department of Biobehavioral Health
SEEQ (scale of 1 to 5): Overall structure of the course promoted meaningful learning experience: 5 (mode), 5 (median); Instructor created a welcoming and inclusive environment: 5 (mode), 5 (median)

Fall 2023 Instructor for undergraduate course: *Research Strategies for Studying Biobehavioral Health*
(75 registered students)
The Pennsylvania State University, Department of Biobehavioral Health
SEEQ (scale of 1 to 5): Overall structure of the course promoted meaningful learning experience: 5 (mode), 5 (median); Instructor created a welcoming and inclusive environment: 5 (mode), 5 (median)

Fall 2022 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, Fall 2001 Teaching assistant for graduate course: *Measurement in Human Development*
The Pennsylvania State University, Department of Human Development and Family Studies

Doctoral Advising (Dissertation Chair or Committee Member)

2025- Sunderland Baker
The Pennsylvania State University, Department of Biobehavioral Health
Chair: Eric Claus

2025- Abi Dadzie
The Pennsylvania State University, Department of Biobehavioral Health
Chair: Orefu Buxton

2025- Chia-Li Yu
The Pennsylvania State University, Department of Psychology
Chair: Jenae Neiderhiser

2024- Walter Dyer
The Pennsylvania State University, Department of Psychology
Chair: Jose Soto

2024- Maddie Politte-Corn
The Pennsylvania State University, Department of Psychology
Chair: Kristin Buss

2024- Yuqi Shen
The Pennsylvania State University, Department of Biobehavioral Health
Chair: Orfeu Buxton

2024-2026 Christine Doroshenko
Title: *Temporal Trends and Risk Profiles in Opioid Use Disorder among Adolescents and Young Adults*
The Pennsylvania State University, Department of Public Health Sciences
Chair: Douglas Leslie

2023-2026 Danny Wang
Title: *Engagement and Compliance in Substance Use Ecological Momentary Assessment: Multilevel and Dynamic Approaches*
The Pennsylvania State University, Department of Biobehavioral Health
Chair: Stephanie Lanza

2023-2025 Qiaofeng Ye
Title: *Biological Aging across the Human Lifespan: Connecting Early Life Experiences and Reproductive Profiles with Health and Mortality*
The Pennsylvania State University, Department of Biobehavioral Health
Chair: Idan Shalev

2024-2024 Evaniya Shakya
Title: *Effectiveness of Microfinance, Nutrition Education, and Couples Strengthening on Maternal and Child Diets in Rural Niger: Evidence from a Program Evaluation Project*
The Pennsylvania State University, Department of Nutrition
Chair: Muzi Na

2019-2024 Samuel Stull
Title: *Ambulatory Assessment to Study Nondrug Reward in Recovery from Opioid Use Disorder*
The Pennsylvania State University, Department of Biobehavioral Health
Chair: Stephanie Lanza

2021-2024 Carlie Sloan
Title: *Parents' Engagement with a Novel mHealth Intervention for Strengthening Families: A Feasibility Study*
The Pennsylvania State University, Department of Human Development and Family Studies
Chair: Gregory Fosco

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

2019-2022 Anna Hochgraf
Title: *Comorbidity between Body Dissatisfaction and Substance Use: A Daily Diary Study of Alcohol, Nicotine Vaping, and Cigarette Use Among Young Adults*
The Pennsylvania State University, Department of Human Development and Family Studies
Co-Chairs: Susan McHale and Stephanie Lanza

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
Co-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

Master's Degree Committee Member

2026- Carlos Almeida
The Pennsylvania State University, Department of Psychology
Chair: Dawn Witherspoon

2026 Caesar Liu
Title: *Within-person Associations Between Daily Emodiversity and Stress Controllability in Midlife Adults*
The Pennsylvania State University, Department of Biobehavioral Health
Chair: Jennifer Graham-Engeland

PhD Qualifying Committee Member, Biobehavioral Health

2024-2025 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
2024-2026 Sara Miller, PhD
2022-2024 Kristin Perry, PhD
2022-2023 Danny Rahal, PhD
2019-2021 Renee Cloutier, PhD
2018-2020 Hannah Allen, PhD
2013-2016 Rebecca Evans-Polce, PhD
2014-2015 Melissa Boone Brown, PhD
2014-2015 Michael Russell, PhD
2012-2014 Annie Fairlie, PhD
2011-2013 Sara Vasilenko, PhD
2011-2012 Keri Jowers, PhD
2009-2011 Suellen Hopfer, PhD

NIH Predoctoral Fellows
2025- Yuqi Shen, predoctoral fellow
2023-2025 Danny Wang, predoctoral fellow
2022-2024 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 Phylicia 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

Other mentoring

Yuqi Shen, Graduate Research Assistant, Biobehavioral Health, The Pennsylvania State University
Role: Primary mentor (9/1/24-6/30/25)

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)

Mentored Awards/Grants

Harold Lee, Assistant Professor, Biobehavioral Health, The Pennsylvania State University
Role: Mentor, SSRI Early Career Fellowship (2024-2025)

Maddie Politte-Corn, Graduate Student, Psychology, The Pennsylvania State University
Role: Mentor, CTSI TL1 Fellowship (2023-2025)

Samuel Stull, Graduate Student, Biobehavioral Health, The Pennsylvania State University
Role: F31 Primary mentor, NIH/NIDA F31DA057837 (8/1/23-6/30/24)

Role: Primary mentor, College of Health and Human Development Limited Endowment Funds for Dissertation Research (2023-2024)

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

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

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

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

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

Danny Wang, Graduate Student, Biobehavioral Health, The Pennsylvania State University
Role: Primary mentor, Graham Fellowship Award (2022-2023)

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)

Idan Shalev, Assistant Professor, Biobehavioral Health, The Pennsylvania State University
Role: Mentor, SSRI Early Career Fellowship (2019-2020)

Ashley Linden-Carmichael, Ph.D., Assistant Research Professor in Health and Human Development, The Pennsylvania State University
Role: K01 AA026854 primary mentor NIH/NIAAA (5/1/19-present)

Scherezade Mama, Ph.D., Assistant Professor in Kinesiology, The Pennsylvania State University
Role: K07 CA222335 mentor NIH/NCI (9/1/18-7/31/24)

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)

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

2026- President (elected), *Society for Ambulatory Assessment*

2024- Member, External Advisory Board for the University of Illinois at Chicago Institute for Research on Addictions

2024- Senior Editor, *Journal of Studies on Alcohol and Drugs*

2025-2026 Member, *Journal of Studies on Alcohol and Drugs* Task Force on Open Science Policy and Practice

2024-2026 President-Elect, *Society for Ambulatory Assessment*

2024 Conducted Book Review for Statistics section at Cambridge University Press

2023 Abstract Reviewer, Society for Research on Adolescence 2024 annual meeting

2022-2026 Member, Data Safety and Monitoring Board, Fox Learning Systems, University of Rochester

2021 External Advisor on establishment of Prevention Science Graduate Program, Rutgers, The State University of New Jersey

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
2019-2026	Consultant, *Prevention Research Center: Parenting Among Women Who Are Opioid Users* (L. Leve, P. Fischer, MPIs)
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; Addictive Behaviors; Addictive Behaviors Reports; 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

2026-present	Chair, BBH Promotion and Tenure Committee
2025-present	Appointed Member, Individual Conflict of Interest Committee
2025-2026	Appointed Member, Health and Wellbeing Steering Committee
2025	Search Committee Member, Penn State Conflict of Interest Director
2024-2026	Member, BBH Promotion and Tenure Committee
2024	Search Committee Member, BBH Graduate Academic Program Coordinator
2023-2024	Search Committee Member, Assistant Professor of BBH (Penn State Cancer Institute co-fund)
2023-2024	Member, BBH Advisory Committee
2023-2024	Chair, BBH Promotion and Tenure Committee
2023-2024	Search Committee Member, Director of SSRI Consortium on Substance Use and Addiction
2023-2024	SSRI Consortium on Substance Use and Addiction Advisory Board
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
2020-2022	Member, Group to Reduce Racial Inequities in Prevention (GRRIP)
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
2015-2017	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. *Landing that academic job: The art of giving a job talk* • October, 2014 at The Methodology Center seminar series, University Park, PA. • November, 2011 at the Graduate Student Association seminar series, University Park, PA • January, 2011 at The Methodology Center seminar series, University Park, PA. • March, 2011 at the Penn State Department of Adult Education, University Park, PA • November, 2010 at the Penn State Graduate Student Alumni Society Soft Skills Workshop Series, University Park, PA.
2011-2014	Member, The Methodology Center Green Team
2011	Search Committee Member, supervising teacher at Bennett Family Center

2010, 2011	Panel Member, *Giving Poster Presentations*. Workshop presented for the Penn State Graduate Student Association
2005-2009	Editor, The Methodology Center Perspective newsletter

Continuing Education

2025	Essentials of Online Teaching, The Pennsylvania State University (certification received)
2021	Graduate, Leadership Program: Changing the Future for Women at Penn State
2014	Project Management: Skills for Success. Learning Tree International (certification received)