

# BARI FUCHS

110 Chandlee Lab • bari.fuchs@gmail.com • baf44@psu.edu • (516) 993-5868

## EDUCATION

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**The Pennsylvania State University** University Park, PA  
Ph.D Candidate, Department of Nutritional Sciences Aug 2017 - Current  
Advisor: Dr. Kathleen Keller

**Emory University, College of Arts and Sciences** Atlanta, GA  
Bachelor of Science (B.S), Neuroscience and Behavioral Biology May 2015

## RESEARCH EXPERIENCE

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*Graduate Student* Aug 2017 - Current  
**The Pennsylvania State University** University Park, PA  
**The Metabolic Kitchen and Children's Eating Behavior Laboratory**

Dr. Kathleen Keller  
Research projects

- Neural mechanisms of overeating in children
- Sex differences in the impact of portion size and energy density on children's neural responses to food images
- Test-retest reliability of a food-image fMRI paradigm

*Post-baccalaureate Intramural Research Training Award (IRTA) Fellowship:* June 2015 – June 2017  
**National Institute of Mental Health (NIMH)** Bethesda, MD  
**Section on Neurobiology of Fear and Anxiety**

Dr. Christian Grillon & Dr. Monique Ernst  
Research projects:

- Neural and behavioral interactions of anxiety and incentive processing
- Effect of methylphenidate on neural responses during a working memory task under threat of shock

*Undergraduate Research Assistant* May 2013- May 2015  
Emory University Atlanta, GA  
**Hamann Cognitive Neuroscience Lab**

Dr. Stephan Hamann  
Research project

- Effect of sleep on memory in adults, utilizing physiology measures such as skin conductance response (SCR), electroencephalography (EEG), and electromyography (EMG)

## POSTERS & PRESENTATIONS

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**Fuchs, B., Pearce, A., Keller, K.** Sex and weight status interact to influence children's neural responses to food cues varying in energy density. Accepted abstract, poster to be presented at the Neuroimaging and Modulation in Obesity and Diabetes Research 10th Anniversary Meeting, Bethesda, MD. 2019

**Fuchs, B., Reigh, N, Mahlobo, C.** Knowledge following an intervention to improve self-regulation of food intake does not predict self-regulation in preschoolers. Video submission, Penn State Graduate Exhibition, University Park, PA. 2019

**Fuchs, B., Masterson, T., Brian, E., English, L., Fearnbach, S., Lasschuijt, M., Wilson, S., Rolls, B., Pearce, A., Keller, K.** Sex differences in the impact of portion size and energy density on children's neural responses to food images. Oral presentation, Society for the Study of Ingestive Behavior Annual Meeting, Bonita Springs, FL. 2018

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**Fuchs, B.**, Lago, T., Balderston, N., Grillon, C., & Ernst, M. (2017, November) Methylphenidate manipulation of the neural underpinnings of anxiety and working memory interactions — Poster, Presented at Society for Neuroscience meeting in Washington, D.C.

**Fuchs, B.** (2016, November). Anxiety and Incentive Processing in the Brain: Insight into the Striatum — Presentation, National Institutes of Health Postbac Seminar Series, in Bethesda, MD.

**Fuchs, B.**, Gorka, A., Grillon, C., & Ernst, M. (2016, November). Impact of anxiety on neural and behavioral responses to incentives — Poster, Presented at Society for Neuroscience meeting in San Diego, CA.

**Fuchs, B.** (2016, October). Anxiety and Reward Interactions in the Brain. — Presentation, Office of the Clinical Director Annual Educational Event, Frederick County Mental Health Department, Frederick County, MD.

**Fuchs, B.**, Lago, T., Balderston, N., Grillon, C., & Ernst, M. (2016, September). Neural responses during a working memory task under threat of shock — Poster, Presented at National Institute of Mental Health Scientific Training Day in Leesburg, VA.

Gorka, A., **Fuchs, B.**, Grillon, C., & Ernst, M. (2016, September). The impact of anxiety on dorsal anterior cingulate responses to unfavorable monetary outcome is specific to loss — Poster, Presented at National Institute of Mental Health Scientific Training Day in Leesburg, VA.

**Fuchs, B.**, Gorka, A., Grillon, C., & Ernst, M. (2016, September). Impact of anxiety on neural and behavioral responses to incentives — Poster, Presented at NIH Research Festival in Bethesda, MD.

Alvarez, G., **Fuchs, B.**, Grillon, C., & Ernst, M. (2016, April). Does threat of shock modulate loss aversion differently in anxious versus healthy adults? — Poster, Presented at National Institute of Health Postbac Poster Day in Bethesda MD.

**Fuchs, B.**, Gorka, A., Grillon, C., & Ernst, M. (2016, April). Anxiety impacts neural responses to the anticipation of monetary incentives — Poster, Presented at National Institute of Health Postbac Poster Day in Bethesda MD.

**Fuchs, B.**, Gorka, A., Grillon, C., & Ernst, M. (2015, September). Interaction between threat and incentive processing in anxiety sensitive individuals — Poster, Presented at National Institute of Mental Health Scientific Training Day in Leesburg, VA.

## MANUSCRIPTS

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Torrise, S., Alvarez, G., Gorka, A., **Fuchs, B.**, Geraci, M., Grillon, C., & Ernst, M. (forthcoming). Resting state connectivity of the bed nucleus of the stria terminalis and central nucleus of the amygdala in clinical anxiety. *Journal of Psychiatry and Neuroscience*

Keller, K.L.; Kling, S.M.R.; **Fuchs, B.**; Pearce, A.L.; Reigh, N.A.; Masterson, T.; Hickok, K. A Biopsychosocial Model of Sex Differences in Children's Eating Behaviors. Preprints 2019, 2019010262 (doi: 10.20944/preprints201901.0262.v1)

Gorka, A., **Fuchs, B.**, Grillon, C., & Ernst, M. Impact of anxiety on neural and behavioral responses to incentives. *Social Cognitive and Affective Neuroscience*, Volume 13, Issue 11, 8 November 2018, Pages 1111–1119, <https://doi.org/10.1093/scan/nsy082>

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## HONORS & AWARDS

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Neuroimaging and Modulation in Obesity and Diabetes Research 10th Anniversary Meeting Travel Award (2019)  
2<sup>nd</sup> place Penn State Graduate Exhibition, video category (2019)  
John A. Milner Endowment Award (2017)  
University Graduate Fellowship, College of Health and Human Development (2017-2018)  
NIMH Intramural Research Program Trainee Travel Award (2016)  
NIMH Intramural Research Training Award (IRTA) Fellowship (2015-2016)  
Dean's List at Emory University (2014-2015)

## OTHER EXPERIENCE & ACTIVITIES

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<i>Student Advisory Committee</i>	2018-Present
<b>Social, Life, and Engineering Sciences Imaging Center at Penn State</b>	<b>State College, PA</b>

## TECHNICAL SKILLS

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Software: AFNI, R, SPSS, Microsoft Excel, E-prime  
Languages: BASH, T-csh