**Alaina L. Pearce, PhD**

The Pennsylvania State University

Department of Nutritional Sciences

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**Education**

Ph.D., Psychology 2017

Concentration: Lifespan Cognitive Neuroscience

Georgetown University

Thesis: Neurocognitive Deficits in Pediatric Obesity

M.A., Psychology 2016

Georgetown University

B.A. Psychology and Spanish, minor in Statistics 2011

Honors and High Distinction

University of Minnesota Morris

**Research Experience**

Assistant Research Professor, Pennsylvania State University January 2022 - Present

Social Science Research Institute

NIH Postdoctoral Fellow, Pennsylvania State University January 2018-December 2021

Department of Nutritional Science

Advisor: Dr. Kathleen Keller

Research focus: Neurocognitive and eating behavior predictors of resiliency to pediatric obesity in children with high familial obesity risk

--This work resulted in 5 publications, 1 article under review, and 1 article in preparation

Graduate Student, Georgetown University 2012-2017

Department of Psychology

Advisor: Dr. Chandan Vaidya

Research focus: Neurocognitive deficits associated with pediatric obesity and the potential remediation of neurocognitive deficits after weight loss surgery in adolescents

--This work resulted in 6 publications and 3 articles in preparation

**Research Support**

Penn State KL2 Pearce (PI) Under Review

“Neurocognitive and Behavioral Factors that Promote Resiliency to Pediatric Obesity in Rural Communities”

Roll: PI

The goal of this mentored Clinical and Translational Science Institute’s Early-Stage Investigator Training Program (KL2) proposal is to identify modifiable behavioral targets for future prevention efforts in rural children who face increased risk for pediatric obesity. The proposed study will contribute essential information to our understanding of the neurocognitive mechanisms supporting eating behavior and resiliency to obesity, which will highlight targets for prevention programs. The focus on rural pediatric obesity is particularly important as it is an understudied, high-risk population that faces unique barriers for prevention and intervention efforts.

NIH/NIDDK F32 DK122669-01 Pearce (PI) Resubmission in Prep

“Neurocognitive Factors that Promote Resiliency to Pediatric Obesity”

The goal of this Mentored Research Scientist Career Development Proposal (K01) is examine the influence of reinforcement learning phenotype (i.e., sign- and goal-tracking) on risk for excess adiposity through neural food cue reactivity and child eating behaviors with the primary aim of identifying factors promote resilience to obesity by moderating the effect of familial obesity risk on child adiposity.

Roll: PI

NIH/NIDDK F32 DK122669-01 Pearce (PI), Keller (Sponsor) 7/1/2019-1/12/22 “Determining protective cognitive and eating behavior phenotypes for pediatric obesity”

The goal of this 3-year Ruth L. Kirschstein National Research Service Award is to continue my training in ingestive behavior and data science while investigating cognitive factors and eating behaviors that may be protective against the development of obesity in children with healthy weight who differ in familial risk for obesity.

Roll: PI

**Awards & Honors**

Harry R Kissileff Award for best oral presentation by a post-doctoral scholar at 2019

the Society for the Study of Ingestive Behavior 2019 annual conference

Nominated for the Harold N. Glassman Distinguished Dissertation 2019

Award

Federation of Associations in Behavioral and Brain Sciences Doctoral Dissertation 2018

Research Excellence Award

Outstanding Graduate in Psychology 2011

Nominated for Minnesota Psychological Association’s Paterson Award 2011

Honors Program 2008-2011

Undergraduate Research Opportunity Program Award 2010

The Effects of Lexical Shortenings and Word Errors on Memory

Mentor: Dr. Cheryl Stewart

Morris Academic Partnership 2010

Construction of a Thematic Coding Scheme for Athlete Self-Talk

Mentor: Dr. Heather Peters

Psychology Research Apprenticeship 2009

The effects of acute paternal alcohol on pups development and maternal behavior

Mentor: Dr. Leslie Meek

Prairie Scholars Award, 4-year full-tuition academic scholarship 2007

**Journal Articles**

\* undergraduate student mentee; + graduate/medical student mentee

**In Preparation**

**Pearce, A. L.,** & Brick, T. R. (in prep). *Cumulative Intake Curve Characterization from Bite Data: Comparison of a Quadratic and a Novel Model*. American Journal of Clinical Nutrition.

+Rajan, L., **Pearce, A. L.,** Cherry, JBC., You, X., Olson, A., Mackey, E., Nadler, E. P., & Vaidya, C. J., (in prep). *Altered Neural Response to Monetary Reward Value in Pediatric Obesity*. Journal of Neuroscience.

 -Pearce, A. L. and +Rajan, L. are co-first authors

**Pearce, A. L.,** Ashraf, T., Helal R., Saidi, S., Flaharty, K., Lessan, N., Vaida, C. J., (in prep). *Obesity and Cognitive Function in Emeriti Children and Adolescents: Relevance of Socio-Economic Factors*. International Journal of Obesity

Ashraf, T., **Pearce, A. L.,** Helal R., Saidi, S., Flaharty, K., Vaida, C. J., Lessan, N., (in prep). *Characterization of Obesity in Emeriti Children and Adolescents: Medical, Family, and Psychological History*. International Journal of Obesity

**Under Review**

Gunther, K. E., Petrie, D., **Pearce, A. L.,** Fuchs, B., Pérez-Edgar, K, Keller, K.L., & Geier, C., (Under Review). *Heterogeneity in PFC-amygdala connectivity in middle childhood, and concurrent interrelations with inhibitory control and anxiety symptomology.* Neuropsychologia.

**Accepted**

+Higgins, R. C.,Keller, K. L., Aruma, J. C., Masterson, T., Adise, S., Fearnbach, N., Stein, W., English, L., Fuchs, B., **Pearce, A. L.,** (2022). *Influence of exclusive breastfeeding duration on hippocampal structure, satiety responsiveness, and weight status*. The Journal of Maternal and Child Nutrition.

**Pearce, A. L., \***Cevallos, M. C., \*Romano, O., \*Daoud, E., & Keller, K. L. (in press). *Child Meal Microstructure and Eating Behaviors: A Systematic Review*. Appetite.

+Fuchs, B., Roberts, N., Adise, S., **Pearce, A. L.,** Geier, C., White, C., Oravecz, Z., & Keller, K. L., (2021, in press), Decision-making processes related to perseveration are indirectly associated with weight status in children through laboratory assessed energy intake. Frontiers Eating Behavior. 12:3399. doi:10.3389/fpsyg.2021.652595

+Rajan, L., McKay, C. C., \*Malavé, G. S., **Pearce, A. L.,** Cherry, JBC., Mackey, E., Nadler, E. P., & Vaidya, C. J., (2021). *Bariatric surgery alters cortical thickness in adolescents with severe obesity*. Obesity. 00:1–10. doi:10.1002/oby.23206

**Pearce, A. L.,** Brick, T. R., Masterson, T., Adise, S., Fearnbach, N., Stein, W., English, L., Tanofsy-Kraff, M., Keller, K. L., (2021). *Using association rules mining to characterize loss of control eating in childhood*. Appetite. 163. doi.org/10.1016/j.appet.2021.105236

Kling., S.M.R., **Pearce, AL**, Reynolds, ML, Garavan, H, Geier, CF, Rolls, BJ, Rose, EJ, Wilson, SJ, Keller, KL(2020). *Development and Pilot Testing of Standardized Food Images for Studying Eating Behaviors in Children.* Front Psychol. 11. doi:10.3389/fpsyg.2020.01729

**Pearce AL**, Adise S, Roberts NJ, White C, Geier CF, Keller KL. (2020) *Individual differences in the influence of taste and health impact successful dietary self-control: A mouse tracking food choice study in children.* Physiology & Behavior. 223. doi:10.1016/j.physbeh.2020.112990

**Pearce, A. L.,** Mackey, E., Cherry, JBC., Olson, A., You, X., Nadler, E. P., & Vaidya, C. J., (2019). *Altered Neural Correlates of Episodic Memory in Adolescents with Severe Obesity*. Developmental Cognitive Neuroscience, 40. https://doi.org/10.1016/j.dcn.2019.100727

Keller, K. L., Kling, S. M., Fuchs, B., **Pearce, A. L.,** Reigh, N. A., Masterson, T. D., \*Hickok, K. (2019*). A biopsychosocial model of sex differences in children’s eating behaviors.* Nutrients.

Masterson, T. D., \*Bermudez, M.A., \*Austen, M., \*Lundquist, E., **Pearce, A. L.,** Bruce, A. S., & Keller, K. L. (2019). *Food Commercials Do Not Affect Energy Intake in a Laboratory Meal But Do Alter Brain Response to Visual Food Cues in Children.* Appetite, 132, 154-165. doi: 10.1016/j.appet.2018.10.010

**Pearce, A. L.**, \*Leonhardt, C., & Vaidya, C. J. (2018). *Executive Dysfunction in Pediatric Obesity: A Meta-Analysis.* Childhood Obesity, 14(5), 265-279. doi: 10.1089/chi.2017.0351

Mackey, E., Jacobs, M., Nadler, E., Olson, A., **Pearce, A. L.**, Cherry, JBC, & Vaidya, C. J., (2018). *Cognitive Performance As Predictor and Outcome of Adolescent Bariatric Surgery: A Pilot Study.* Journal of Pediatric Psychology, 43(8), 916–927. doi: 10.1093/jpepsy/jsy028

**Pearce, A. L.**, Mackey, E., Nadler, E. P., & Vaidya, C. J. (2018). *Sleep Health and Psychopathology Mediate Executive Deficits in Pediatric Obesity.* Childhood Obesity, 14(3), 189-196. doi: 10.1089/chi.2017.0281

**Pearce, A. L.,** Mackey, E., Cherry, JBC., Olson, A., You, X., Magee, S. N., Mietus-Snyder, M., Nadler, E. P., & Vaidya, C. J., (2017). *Effect of Adolescent Bariatric Surgery on the Brain and Cognition: A Pilot Study*. Obesity, 25(11), 1852–1860. doi:10.1002/oby.22013

**\*Selected as 1 of 5 winning manuscripts for the 5th annual Obesity Journal Symposium at Obesity Week 2017 resulting in a produced** [**video abstract**](https://www.youtube.com/watch?v=VoJ2uxAsuVM)

**\*Selected as Editor’s Choice Article**

**Book Chapters**

Vaidya, C. J. & **Pearce, A. L.** (in press).*Neurocognitive Basis of Attention Deficit Hyperactivity Disorder.*  The Wiley Handbook on the Cognitive Neuroscience of Developmental Dyslexia(Ed: G. F. Eden*),*John Wiley & Sons, publisher

**Invited Talks**

Cognitive Deficits in Pediatric Obesity: Cause or Consequence (February 11th, 2019). Colloquium for Department of Nutritional Science and Food Science, The Pennsylvania State University, University Park PA

Neurocognitive Deficits in Pediatric Obesity: Reversal After Bariatric Surgery (May 8th, 2018) Department of Nutritional Science and Food Science, The Pennsylvania State University, University Park PA

**Conference Presentations**

\* undergraduate student mentee; + graduate/medical student mentee

**Oral Presentations**

+Higgins, R. C.,Keller, K. L., +Aruma, J. C., Masterson, T., Adise, S., Fearnbach, N., Stein, W., English, L., Fuchs, B., **Pearce, A. L.,** (Nov. 5th, 2021). *Exclusive breastfeeding Influence on Hippocampal Volume, Satiety Responsiveness, and Weight Status*. Obesity Week 2021, Virtual.

 **-**Author +Higgins, R. C. presented the talk

+Reigh, N., **Pearce, A. L.**, Garavan, H., Geier, C. F., Rolls, B. J., Rose, E., Wilson, S., and Keller, K.L. (July 12th, 2021). *Children’s Satiety Quotient is associated with Trait-based Satiety Responsiveness and Varies with Meal Portion Size.* 28th Annual Meeting of the Society for the Study of Ingestive Behavior. Virtual.

 **-**Author Reigh, N. presented the talk

+Rajan, L., **Pearce, A. L.,** Cherry, J. B. C., You, X., Olson, A., Mackey, E., Nadler, E. P, & Vaidya, C. J. (November, 2019). *Effect of Vertical Sleeve Gastrectomy on Resting State Functional Connectivity of Hypothalamus in Adolescents with Severe Obesity.* Obesity Week 2019, Las Vegas, NV

 **-**Author Rajan, L. presented the talk

**Pearce, A.L**, Adise, S., Roberts, N.J., Geier, C.F., White, C.N., & Keller, K.L. (July 10th, 2019). *Temporal dynamics of taste and health differ by child weight status during a food decision making task.* 27th Annual Meeting of the Society for the Study of Ingestive Behavior, Utrecht, NL.

**\* Selected for the New Investigator Travel Award**

**\* Awarded the Harry R. Kissileff Award for best oral presentation by a post-doctoral scholar**

**Pearce, A. L.,** Mackey, E., Nadler, E. P., & Vaidya, C. J. (May 18th, 2019). *Preliminary Evidence for Changes in Neurocognitive Function after Adolescent Bariatric Surgery*. Novel Findings on the Gut-Brain Axis Symposium. Society of Biological Psychiatry. Chicago, IL.

+Fuchs,B.A., Masterson, T.P., Brian, E.J.G., English, L.K., Fearnbach, S.N., Lasschuijt. M., Wilson, S.J., Rolls, B.J., **Pearce, A.L**, Keller, K.L. (July, 20th 2018) *Sex Differences in the Impact of Portion Size and Energy Density on Children’s Neural Responses to Food Images.* 26th Annual Meeting of the Society for the Study of Ingestive Behavior, Bonita Springs, FL.

 **-**Author +Fuchs, B.A. presented the talk

**Pearce, A. L.,** Mackey, E., Cherry, JBC., Olson, A., You, X., Magee, S. N., Mietus-Snyder, M., Nadler, E. P., & Vaidya, C. J., (October 31, 2017). *Effect of Adolescent Bariatric Surgery on the Brain and Cognition: A Pilot Study*. The Obesity Society Obesity Week 2017 Journal Symposium. Washington, DC.

**\*Selected as 1 of 5 to present at the 5th annual Obesity Journal Symposium at Obesity Week 2017**

**Pearce, A. L.,** Mackey, E., Kietlinski, M., Nadler, E., & Vaidya, C. J. (September 18, 2014) *Cognitive Functioning and Daily Life Impairment in Pediatric Obesity.* Biomedical Graduate Student Research Day, Georgetown University, Washington DC

**Poster Presentation**

**Pearce, A. L**, Brick., T., Masterson, T., Adise, S., English, L.K., Fearnbach, N., Stein, W., Fuchs, B., and Keller, K.L. (Sept. 21st, 2021) *Application of Gaussian Graphical Models to Identify Brain Structures Associated Children’s Appetitive Traits.* Annual Flux Congress. Virtual. Pre-Registration Submission.

+Neuwald, N., Garavan, H., Geier, C. F., **Pearce, A. L.**, Rolls, B. J., Rose, E., Wilson, S., **\***Cevallos, M. C., \*Romano, O., and Keller, K.L. (July, 2021). *Food responsiveness indirectly affects children’s meal intake by influencing the number of switches between foods.* 28th Annual Meeting of the Society for the Study of Ingestive Behavior. Virtual.

+Fuchs, B. A., **Pearce, A. L.**, Keller, K. L., Gilbert-Diamond, D., Kotz, D., Masterson, T. D., (July, 2021) S*tability of Meal Microstructure in Children.* 28th Annual Meeting of the Society for the Study of Ingestive Behavior. Virtual.

**Pearce, A. L**, and Brick, T., (July, 2021) *Characterization of Cumulative Intake Curves from Bite Data: A Comparison of a Quadratic and a Novel Model.* 28th Annual Meeting of the Society for the Study of Ingestive Behavior. Virtual.

+Reigh, N. A., **Pearce, A. L.**, Garavan, H., Geier, C. F., Rolls, B. J., Rose, E., Wilson, S., and Keller, K.L. (June, 2021). *Association between state- and trait-based satiety responsiveness differs by child risk for overweight/obesity.* American Society of Neuroscience 2021. Virtual.

**Pearce, A. L.,** Ashraf, T., Helal R., Saidi, S., Flaharty, K., Vaida, C. J., Lessan, N., (2021). *Obesity and Cognitive Function in Children and Adolescents: Relevance of Socio-Economic Factors.* European Congress on Obesity. Virtual Poster.

**Pearce, A. L.**, Garavan, H., Rose, E., Rolls, B. J., Wilson, S., and Keller, K.L. (November, 2020) *Stuck in a Rut? Children with inflexible reinforcement learning show greater hedonic overconsumption.* Obesity Week 2020, Virtual. Poster

+Fuchs, B.**,** Roberts, N., Adise, S., **Pearce, A. L**, Geier, C., White, C., Oravecz, Z., and Keller, K. L. (November, 2020) *Decision-making Processes in Children are Associated With the Tendency to Overeat in the Laboratory.* Obesity Week 2020, Virtual.

**Pearce, A. L**, English, L.K., Adise, S., Masterson, T., Fearnbach, N., Stein, W., Tanofsky-Kraff, M., and Keller, K.L. (September 11th, 2020) *Loss of Control-Eating is Associated with Altered Cortical and Subcortical Grey Matter Volume.*, Annual Flux Congress, Virtual. Poster 3-Q-259.

+Rajan, L., McKay, C. C., **Pearce, A. L.,** Santos, G. M., Mackey, E., Nadler, E. P., Vaidya, C. J. (September 11th, 2020). *Bariatric surgery alters cortical thickness in adolescents with severe obesity.* Annual Flux Congress, Virtual.

Gunther, K. E., Petrie, D., **Pearce, A. L.**, Fuchs, B., Keller, K. L., and Geier, C. (September 11th, 2020) *Examining inhibitory control as a moderator between childhood resting state fronto-limbic connectivity and anxiety*. Annual Flux Congress, Virtual. Pre-registration Submission.

**Pearce, A.L**, Fuchs. B., Masterson, T., Bermudez, M., Brian, E., & Keller, K.L. (August 31st, 2019). *Using multivoxel pattern analysis to determine test-retest reliability of neural representations in response to food cues in children.* Annual Flux Congress, New York, NY. Poster 2-K-55.

+Fuchs, B., **Pearce, A.L**, Masterson, T., Bermudez, M., Brian, E., & Keller, K.L. (August 31st, 2019). *Test-retest reliability of neural responses to visual food cues in children.* Annual Flux Congress, New York, NY. 2-K-56.

+Rajan, L., Santos, G., **Pearce, A. L.,** Cherry, J. B. C., You, X., Olson, A., Mackey, E., Nadler, E. P, & Vaidya, C. J. (August 30th, 2019). *Alteration in Gray Matter Volume and Thickness in Adolescents with Severe Obesity.* Annual Flux Congress, New York, NY. Poster 1-L-76.

+Reigh, N.A., **Pearce, A.L**, & Keller, K.L. (July 12th, 2019). *Parents report greater concern for increased weight in girls than in boys.* 27th Annual Meeting of the Society for the Study of Ingestive Behavior, Utrecht, NL.

+Fuchs,B.A., Adise, S., **Pearce, A.L**, Roberts, N.J., Geier, C.F., White, C.N., & Keller, K.L. (July 10th, 2019). *Decision making in a child-appropriate version of the Iowa Gambling Task differs by child weight status and maternal BMI.* 27th Annual Meeting of the Society for the Study of Ingestive Behavior, Utrecht, NL.

+Rajan, L., **Pearce, A. L.,** Cherry, JBC., You, X., Olson, A., Mackey, E., Nadler, E. P., & Vaidya, C. J. (June 10th, 2019). *Altered Neural Correlates of Reward Processing in Adolescents with Severe Obesity*. 25th Annual Meeting of the Organization for Human Brain Mapping. Rome, Italy. Poster M576.

+Rajan, L., **Pearce, A. L.,** Cherry, J. B. C., You, X., Olson, A., Mackey, E., Nadler, E. P, & Vaidya, C. J. (April 16, 2019). *Atypical Resting State Hypothalamic Functional Connectivity in Adolescents with Severe Obesity and Response to Bariatric Surgery.* 10th Anniversary Meeting of the Neuroimaging and Modulation in Obesity and Diabetes Research. Bethesda, MD.

+Fuchs, B., **Pearce, A. L.,** Keller, K. L. (April 16, 2019). *Sex and weight status interact to influence children’s neural responses to food cues varying in energy density*. 10th Anniversary Meeting of the Neuroimaging and Modulation in Obesity and Diabetes Research. Bethesda, MD.

+Rajan, L., **Pearce, A. L.,** Cherry, JBC., You, X., Olson, A., Mackey, E., Nadler, E. P., & Vaidya, C. J. (November, 13th 2018). *Impaired Domain-General Reward Processing in Adolescents with Severe Obesity*. The Obesity Society Obesity Week 2018. Nashville, TN. Poster T-P-3102

**Pearce, A.L**, English, L.K., Tanofsky-Kraff, M., and Keller, K.L. (July 20th, 2018) *Identifying Determinants of Loss of Control of Eating in Children Using Association Rules Data Mining.* 26th Annual Meeting of the Society for the Study of Ingestive Behavior, Bonita Springs, FL. Poster 178

Pugliese, C. E., **Pearce, A. L.,** Skapek, M., Armour, A., Collins, M., Crutcher, J., Martin, A., Wallace, G. L., Anthony, L., Kenworthy, L. (November 17th, 2017). *Characterizing Longitudinal Change in Executive Functions in Autism Spectrum Disorder*. Association for Behavioral and Cognitive Therapies 51st Annual Convention., San Diego, CA. Poster B60.

Mackey, E., Jacobs, M., Nadler, E. P., **Pearce, A. L.**, Olson, A., Cherry, JBC., & Vaidya, C.J. (November 1st, 2017). *Does Emotional and Binge Eating Improve Following Sleeve Gastrectomy in Adolescents?* The Obesity Society Obesity Week 2017. Washington, DC. Poster T-P-3206.

**Pearce, A. L.,** Cherry, JBC., You, X., Olson, A., Mackey, E., Nadler, E. P., & Vaidya, C. J. (June 29th, 2017). *Altered Neural Bases of Memory, Reward, and Executive Function in Obese Adolescents*. 23nd Annual Meeting of the Organization for Human Brain Mapping. Vancouver, Canada. Poster 3357.

**Pearce, A. L.,** Cherry, JBC., You, X., Olson, A., Mackey, E., Nadler, E. P., & Vaidya, C. J. (Sept. 9th, 2016). *Reduced Neural Engagement During Memory in Pediatric Obesity*. Annual Flux Congress. St. Louis, MO. Poster 2-A-8.

**Pearce, A. L., \***Farr, K., & Vaidya, C. J. (April 3rd, 2016) *Typical development of associative learning: Greater contribution of stimulus saliency in adolescence*. Cognitive Neuroscience Society Annual Meeting. New York, NY. Poster B49.

**Pearce, A. L.,** Kenealy, L., Gaillard, W., Stein, M., Cook, E., & Vaidya, C. J. (Nov. 19th, 2014) *Effect of methylphenidate on inhibitory control depends upon DAT1 genotype and baseline executive functioning in childhood ADHD*. Society for Neuroscience, Washington, DC. Abstract 8789.

**Pearce, A. L.,** Mackey, E., \*Kietlinski, M., Nadler, E.P., & Vaidya, C. J. (Nov. 4th, 2014) *Cognitive Functioning and Daily Life Impairment in Pediatric Obesity.* The Obesity Society Obesity Week 2014, Boston, MA. Abstract T-2246-P.

**Pearce, A**. **L.**, \*Kietlinski, M., Mackey, E., Nadler, E. P., & Vaidya C. J. (Sept. 13th, 2014) *Impaired Executive Control and Reward Functioning in Pediatric Obesity.* Annual Flux Congress, Hollywood, CA. Abstract P-2-32.

**Pearce, A. L.,** Stollstorff, M., Foss-Feig, J., Kenealy, L., Gaillard, W., Stein, M., Cook, E., & Vaidya, C. J. (Sept. 21, 2013) *Neural Response to Inhibitory Load Depends on Dopamine Transporter Genotype in Healthy Children.* Annual Flux Congress, Pittsburg, PA. Abstract C-2-30.

**Pearce, A. L.,** Stollstorff, M., Foss-Feig, J., Kenealy, L., Gaillard, W., Stein, M., Cook, E., & Vaidya, C. J. (May 24, 2013) *Effect methylphenidate and inhibitory load depend upon DAT1 genotype in childhood ADHD.* Association for Psychological Science’s 25th Annual Convention, Washington, DC. Abstract V-008.

Valentiner, E., **Pearce, A. L.,** & Stewart, C. (May 26, 2012) *The Effects of Lexical Shortenings and Word Errors on Memory for Academic and Conversational Information.* Association for Psychological Science’s 24th Annual Convention, Chicago, IL. Abstract IX-049.

**Pearce, A. L.,** Valentiner, E., & Stewart, C. (April 16, 2011) *The Effects of Lexical Shortenings and Word Errors on Cognitive Processing.* Poster presented at UMM Undergraduate Research Symposium, University of Minnesota Morris, Morris, MN. Abstract 27.

**Internships/Extra Training**

*Modeling Developmental Change: Practical Integration of Advanced* Sept. 2017

*Neuroimaging and Statistical Methods*

Flux Annual Congress Pre-Session

*Applied Multilevel Models for Longitudinal and Clustered Data* June 2016

ICPSR instructor: Ryan Walters

*Intern, Behavioral Resources and Institute for* June 2010-August 2010

*Neuropsychological Services (BRAINS)*

Mentors: Dr. Michael Wolff and Dr. Rochelle Manor

**Teaching Experience**

Instructor Psychology Department, Georgetown University

*Causes and Consequences of Pediatric Obesity* Spring 2016

Recitation Instructor Psychology Department, Georgetown University

*Research Methods* Fall 2016, Spring 2014, Fall 2014

Guest Lecturer

Biobehavioral Health Sciences, University of Pennsylvania

*Obesity and Society* Fall 2020, Spring 2021

 Nutritional Sciences, Pennsylvania State University

*Childhood Obesity* Fall 2019

*Eating and Weight Disorders* Fall 2020

 Psychology Department, Georgetown University

*The Psychology of Memory*  Fall 2017

*Abnormal Psychology* Fall 2014

*Child Development* Spring 2013

Teaching Fellow Psychology Department, Georgetown University

*The Psychology of Memory* Fall 2017

*Research Methods* Fall 2016, Spring 2014, Fall 2014

*Abnormal Psychology* Fall 2014

*Child Development* Spring 2013

*Lifespan Psychology* Fall 2012

*Apprenticeship In Teaching Program* Center For New Designs in Learning and Scholarship

 Fall 2014-Spring 2016

Teaching Assistant Psychology Department, University of Minnesota Morris

*Biopsychology*  Fall 2010

*Research Methods in Psychology*  Fall 2010

**Mentorship**

Nicole Reigh, graduate student, PhD, The Pennsylvania State University 2018-

Current Status: graduate student, The Metabolic Kitchen and Children’s Eating Behavior Laboratory, The Pennsylvania State University

Bari Fuchs, graduate student, PhD, The Pennsylvania State University 2018-

Current Status: graduate student, The Metabolic Kitchen and Children’s Eating Behavior Laboratory, The Pennsylvania State University

Ryan Higgins, medical student, MD, The Pennsylvania State University 2019-2021

Publication: +Higgins, R. C.,Keller, K. L., Aruma, J. C., Masterson, T., Adise, S., Fearnbach, N., Stein, W., English, L., Fuchs, B., **Pearce, A. L.,** (in prep). *Influence of exclusive breastfeeding duration on hippocampal structure, satiety responsiveness, and weight status*. The Journal of Maternal and Child Nutrition

\***was selected for the Bedrick Family Medical Student Research Award $1000**

Current Status: medical student, The Pennsylvania State University

Olivia Romano, undergraduate student, B.S., Pennsylvania State University 2019-2021

Publication: Pearce, A. L., **\***Cevallos, M. C., \*Romano, O., \*Daoud, E., & Keller, K. L. (under review). *Child Meal Microstructure and Eating Behaviors: A Systematic Review*. Appetite.

Current Status: English teacher in France

Maria Camilla Cevallos, undergraduate student, B.S., Pennsylvania State University 2019-2021

 Publication: Pearce, A. L., \*Cevallos, M. C., \*Romano, O., \*Daoud, E., & Keller, K. L. (under review). Child Meal Microstructure and Eating Behaviors: A Systematic Review. Appetite.

 Current Status: Nutritionist, Wellness Empresarial

Jane Frances, medical student, MD, The Pennsylvania State University 2019-2020

Research Project: The association of cortical thickness and grey matter density with adiposity in children

Current Status: medical student, Pennsylvania State University

Laya Rajan, graduate student, MD/PhD, Georgetown University 2016-2020

Current Status: Medical Student, Georgetown University Medical Center

Sara Harris, Honors student, B.S. Nutrition, Pennsylvania State University 2018-2019

 Honors Project: The Impact of Parental Feeding Practices and Child Appetitive Traits on Loss of Control Eating in 7-11 Year Olds

Gabriel Santos, undergraduate student, Georgetown University 2016-2018

Publication: Rajan, L., McKay, C. C., \*Malavé, G. S., Pearce, A. L.,Cherry, JBC., Mackey, E., Nadler, E. P., & Vaidya, C. J., (2021). *Bariatric surgery alters cortical thickness in adolescents with severe obesity*. Obesity. 00:1–10. doi:10.1002/oby.23206

Current Status: medical student, Icahn School of Medicine at Mount Sinai

Theresa Romualdez, undergraduate student, Georgetown University 2016-2017

Awards: Georgetown Undergraduate Research Opportunities Program Summer Fellowship; 2016

Current Status: Growth Marketing Manager, LiveControl

Liana Preudhomme, research assistant, Developmental Cognitive Neuroscience Lab, Georgetown University 2016 - 2017

Current Status: graduate student, University of Miami

Christine Leonhardt, undergraduate student, Georgetown University 2016-2017

Publication: Pearce, A. L., Leonhardt, C., & Vaidya, C. J. (2018). Executive Dysfunction in Pediatric Obesity: A Meta-Analysis. Childhood Obesity, 14(5), 265-279.

Current Status: Director of Operations, Grow Therapy

Kathleen Farr, undergraduate student, Georgetown University 2013-2015

Awards: Georgetown Undergraduate Research Opportunities Program Summer Fellowship; 2014

Current Status: LPC-MHSP, NCC Therapist at The Refuge Center for Counseling

Maciej Kietlinski, undergraduate student, Georgetown University 2013-2014

Current Status: Leadership Development Fellow at FMI

**Professional Service**

Review for: Present

Obesity Reviews

Pediatric Obesity

Childhood Obesity

Frontiers

Appetite

Physiology & Behavior

Social, Cognitive, and Affective Neuroscience

Hippocampus

Social, Behavior, and Personality

Society for Research in Child Development Dissertation Fellowship Award Reviewer 2014

**Statistical Skills**

General and generalized linear models, ANOVA, multi-level/mixed-effects models, multivariate statistics (PCA/ICA), clustering, meta-analyses, association rules data mining

**Computing Skills**

Computing: bash, tcsh, experience using high-performance computing clusters, Matlab, python

Imaging: AFNI, SPM, GLM Fast Flex, Computational Anatomy Toolbox (CAT12), MarsBar, FreeSurfer, representational similarity analysis (CoSMoMVPA), novice-level experience with FSL

Statistical: R/R-Studio, SPSS, and novice-level experience with STATA and SAS

Experimental Task Programing: EPrime, psychtoolbox

General: Office suite, iWork suite

**Professional Affiliations**

The Society for the Study of Ingestive Behaviors

The Society for Developmental Cognitive Neuroscience (FLUX)

The Obesity Society

**References**

Dr. Kathleen Keller, Associate Professor, Departments of Nutritional and Food Science, Pennsylvania State University

Dr. Timothy Brick, Associate Professor, Department of Human Development and Family Studies, Pennsylvania State University

Dr. Barbara Rolls, Professor, Department of Nutritional Science, Pennsylvania State University

Dr. Chandan Vaydia, Professor, Psychology Department, Georgetown University