Updated June 2018

Shana Adise, BS, PhD

Postdoctoral Fellow at The University of Vermont

Curriculum Vitae

The University of Vermont
Department of Psychiatry
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Burlington, VT 05401

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ACADEMIC APPOINTMENTS:

Postdoctoral:	The University of Vermont, Burlington, VT Department of Psychiatry Advisor: Dr. Hugh Garavan	2018-present

EDUCATION:

Graduate:	The Pennsylvania State University, University Park, PA Ph.D., Nutritional Sciences Advisor: Kathleen, L. Keller, Ph.D. Committee members: Drs. Charles F. Geier, Corey N. White, Barbara J. Rolls, Rebecca Corwin	2013-2017
Undergraduate:	The City College of New York (CUNY), New York, NY Bachelor of Science (B.S.) in Psychology Honors, emphasis in Cognitive Neuroscience Magna Cum Laude City College Fellow, Phi Beta Kappa.	2007-2012

FELLOWSHIPS & AWARDS:

TCORS Postdoctoral Fellowship	2018-2019
The Obesity Society's Pat Simons Travel Award	2016
SfN Trainee Professional Development Award ***	2016
Kligman Graduate Fellowship *	2016-2017
Nutritional Sciences Graduate Student Teacher and Mentor Award *	2016
Nutritional Sciences Graduate Student Travel Award *	2016
University Office of Global Programs Graduate Travel Grant *	2016
College of Health and Human Development Professional Development Endowment Travel Award *	2016
SLEIC Dissertation Award, NIH *	2016-2017
USDA Childhood Obesity Prevention Training Fellowship	2014-2016
Excellence in Graduate Recruitment Award *	2013-2014
Research Center for Minority Institute (RCMI) Travel Award, NIMHD	2012
Phi Beta Kappa Honors Society	2011
Summer Research Award **	2010
Summer Research Travel Award **	2009
City College Fellowship	2008-2011

* Awarded from The Pennsylvania State University
** Awarded from the City College of New York
*** Awarded from the Society for Neuroscience (SFN)

PREVIOUS ACADEMIC POSITIONS:

The Pennsylvania State University, Nutritional Sciences, University Park, PA: 08/2013-present
Position: Graduate Research Assistant
Mentor: Kathleen Keller, Ph.D.
Research Initiatives: How do differences in reward and inhibitory control networks relate to food intake and weight status in children?

City College of New York (CUNY), Biology Department, New York, NY 2011-2013
Position: Lab Manager and Research Assistant
Mentor: Adrian Rodriguez-Contreras, Ph.D.
Research Initiatives: Investigating the mechanisms that control auditory development in rodents

Montclair State University, Psychology Department, Montclair, NJ: 2010-2013
Position: Research Assistant
Mentor: Debra Zellner, PhD.
Research Project: Understanding how perception influences taste and liking
Industry Support: Gardein Protein International and Amy's Kitchen: Product and funding.

City College Cognitive Neuroscience Department, New York, NY 2008-2010
Position: Undergraduate Research Assistant
Mentors: John J. Foxe, PhD. and Sophie Molholm PhD.
Research Project: Endogenous and exogenous visual and auditory attention, multisensory integration, McGurk effect, and selective attention in adults and children with and without autism.

CLINICAL POSITIONS:

Weill Cornell Medical College: Center for Sleep Medicine, 2010-2011
Neurology Department, NY, NY:
Position: Sleep Technologist
Supervisors: Ana Krieger, MD, Amit Patel, MD, Matthew Ebben, Ph.D. and Arthur Spielman, Ph.D.

PUBLICATIONS:

Adise, S., Geier, C. F., Roberts, N. J., White, C. N., Keller, K.L (*Under Review,* 2018). Food or money? Children's brains respond differently to rewards regardless of weight status. *Pediatric Obesity.*

Adise, S., Geier, C. F., Roberts, N. J., White, C. N., Keller, K.L (*Under Review,* 2018). Is the brain response to food rewards related to overeating? A test of the dynamic vulnerability model of overeating in children. *Appetite.*

Adise, S., Geier, C. F., Roberts, N. J., White, C. N., Keller, K.L (*In prep,* 2017). The influence of reward incentives on inhibitory contrl and the relationship to body weight and overeating in children.

Keller, K.L. & **Adise, S.** (2016). Variation in the ability to taste bitter thiourea compounds: implications for food acceptance, dietary intake, and obesity risk in children. *Annual Review of Nutrition.* 36: 157-182.

Adise, S., Gavdanovich, I., & Zellner, A. (2015). Looks like chicken: Exploring the law of similarity in evaluation of foods of animal origin and their vegan substitutes. *Food Quality and Preference.* 41: 52-59.

Adise, S., Saliu, A., Maldonado, N., Kharti, V., Cardoso., & Rodriguez-Contreras, A. (2014). Effect of maternal care on hearing onset induced by developmental changes in the auditory periphery. *Journal of Neuroscience*. 34(14): 4528-4533.

Saliu, A., **Adise, S.,** Xian, S., Kudelska, K., & Rodriguez-Contreras, A. (2014). Natural and lesion-induced decrease in cell proliferation in the medial nucleus of the trapezoid body during hearing development. *Journal of Comparative Neurology.* 522 (5): 971-985.

CONFERENCES, ABSTRACTS AND PRESENTATIONS:

Adise, S., D'Alberto, N., Chaarani, B., Spechler, P. A., Ivanciu, I., Higgins, S., & Garavan, H. (2018). Dissecting the decision to respond provides insight into the processes driving successful inhibition between good and bad inhibitors. **Society for Neuroscience.** San Diego.

Spechler, P. A., Garavan, H., Ivancui, A., Charrani, B., **Adise. S.,** & Higgins, S. (2018). Characterizing the neurobiology of nicotine dependence using multimodal human neuroimaging. **Society for Neuroscience.** San Diego.

Adise, S., Geier, C. F., Roberts, N. J., Caprio, A. M., Belko, C., Reigh, N. A., White, C. N., & Keller, K. L. (2017). Children's brains respond more to winning money than food, regardless of weight status. **Society for Neuroscience.** Washington, D.C. (Oral Presentation).

Adise, S., Geier, C. F., Roberts, N. J., Caprio, A. M., Belko, C., Reigh, N. A., White, C. N., & Keller, K. L. (2017). Children's brains respond more to winning money than food, regardless of weight status. **Society for Neuroscience.** Washington, D.C. (Oral Presentation).

Roberts, N. J., **Adise, S.,** Brittain, B., Keller, K. L., & Geier, C. F. (2017). Does reward type matter? Examining differences in reward types in healthy weight vs. overweight or obese adolescents. **Society for Neuroscience.** Washington, D.C. (Poster and Abstract).

Adise, S., Geier, C. F., Roberts, N. J., Caprio, A. M., Belko, C., Reigh, N. A., White, C. N., & Keller, K. L. (*submitted* 2017). Food and money elicit different patterns of brain response in children, regardless of weight status. **Society for the Study of Ingestive Behavior.** Montreal, Quebec, Canada.

Adise, S., Caprio, A. M., Roberts, N. J., White, C. N., Geier, C. F., & Keller, K. L. (2016). Differences in brain response to anticipation for food and money rewards predicts children's intake of savory foods served at a highly palatable buffet meal. **Society for Neuroscience.** San Diego, CA. (Poster and Abstract).

Adise, S., Caprio, A. M., Roberts, N. J., White, C. N., Geier, C. F., & Keller, K. L. (2016). Children's laboratory food intake is predicted by brain response to anticipation of food and money rewards. **The Obesity Society.** New Orleans, LA. (Oral Presentation).

Roberts, N. J., **Adise, S.,** Keller, K. L., & Geier, C. F. (submitted 2016). A hierarchical extension of the LATER model to examine differences in inhibitory control by development, reward type, and weight status. **FLUX Congress**. St. Louis, MO.

Adise, S., Caprio, A. M., Roberts, N. J., White, C. N., Geier, C. F., & Keller, K. L. (2016). Child weight status and performance on an inhibitory control task predict intake at a palatable buffet meal. **Society for the Study of Ingestive Behavior.** Porto, Portugal. (Oral Presentation).

Roberts, N. J., Braymiller, J. L., **Adise, S.,** Keller, K. L., & Geier, C. F. (2015). The relationship between inhibitory control, reward sensitivity, and weight status in adolescents: A pilot study incorporating behavioral and imaging measures, and *ad libitum* food intake. **FLUX Congress.** Leiden, Netherlands. (Poster and Abstract).

Adise, S., Close, A. C., Bloom, R., & Keller, K. L. (2015). Variation at a common polymorphism in the CD36 gene is associated with liking of low-fat dairy and parental perception of child weight. **Society for the Study of Ingestive Behavior**, Denver, CO. (Oral Presentation).

Adise, S., Bloom, R., & Keller, K. L. (2014). PROP Taster Status May Predict Liking of Higher Fat Foods in Children. **Society for the Study of Ingestive Behavior**, Seattle, WA. (Oral Presentation).

Adise, S., Saliu, S., Malanado, N., Cardoso, L., & Rodriguez-Contretras, A. (2012). *Cross-fostering accelerates hearing development in rats.* **Research Centers for Minority Institutions,** San Juan, PR. (Poster and Abstract).

Adise, S., Saliu, S., Malando, N., Cardoso, L., & Rodriguez-Contreras, A. (2012). *Anatomical and functional changes of auditory development in cross-fostered rats.* **Society for Neuroscience: APAN symposium,** New Orleans, LA. (Poster and Abstract).

Adise, S., Gavdanovich, I., & Zellner D. (2012). *Liking for Dairy and Meat Products and Vegan Substitutes: Influence of Cognition.* **Society for the Study of Ingestive Behaviors,** Zurich, Switzerland. (Poster and Abstract).

Adise, S., & Zellner, D. (2012). *Animal Name Association Elicits Disgust for Vegan Food Products.* **Association for Psychological Science**, Chicago, IL. (Poster and Abstract).

Adise, S., Saliu S., & Rodriguez-Contreras, A. (2012). *Cross-fostering Increases Auditory Sensitivity in Developing Rats.* **The Association for Research in Otolaryngology,** San Diego, CA. (Poster and Abstract).

Saliu, A., Maldonado, N., Khatri, V., **Adise, S.,** Ramnarine, K., Cardoso, L., & Rodriguez-Contreras, A. (2012). *Cochlear lesions reduce the proliferation of glial cell precursors during a sensitive period in the rat auditory brainstem.* **The Association for Research in Otolaryngology,** San Diego, CA. (Poster and Abstract).

Saigal, S., Kudleska, K., **Adise, S.,** & Rodriguez-Contreras, A. (2011). *Evidence of a Conserved Pattern of Cell Proliferation in the Auditory Brainstem of Altricial Rodents.* **Eastern Auditory Retreat**, New Haven, CT. (Poster and Abstract).

Adise, S., Gavdanovich, I., & Zellner, D. (2011). *Understanding Food Taste: Identifying Taste Discrepancies and Perceptions of Vegan Foods.* **City College Fellowship Research Conference**, New York, NY. (Oral Presentation).

Adise, S., Snyder, A. C., & Foxe, J. J, (2010). *An Experimental Approach to Understanding Exogenous Attention.* **City College Fellowship Research Conference**, New York, NY. (Oral Presentation).

Adise, S., Snyder A. C., & Foxe, J. J. (2009). *Electrophysiological Correlates of Cross-Sensory Effects on Exogenous Attention.* **Society for Neuroscience Research Conference**, Chicago, IL. (Poster and Abstract).

Adise, S., Snyder A. C., & Foxe, J. J. (2009). *Exogenous Attention: A Cross-Sensory Experiment.* **City College Fellowship Research Conference,** New York, NY. (Oral Presentation).

PROFESSIONAL MEMBERSHIPS (past and/or present):

The Obesity Society (TOS)
Society for the Study of Ingestive Behavior (SSIB)
Society for Neuroscience (SFN)
Women in Cognitive Sciences
Association for Psychological Science (APS)

PEER REVIEWER FOR THE FOLLOWING JOURNALS:

Appetite
NeuroImage

TEACHING EXPERIENCE:

Graduate Teaching Assistant, Penn State University, Department of Nutritional Science 2016-2016
Course: NUTR 497, *Eating and Weight Disorders*

Graduate Teaching Assistant, Penn State University, Department of Nutritional Science 2013-2016
Course: NUTR 496, *Undergraduate Independent Study*

Graduate Teaching Assistant, Penn State University, Department of Nutritional Science 2015-2016
Course: NUTR 494 H, *Undergraduate Senior Honors Thesis*

Development of policies and procedures for mentoring and teaching undergraduates in a research setting 2015

Graduate Teaching Assistant, Penn State University, Department of Nutritional Science 2015
Course: NUTR 446 *Nutrient Metabolism*
Lecture: Vitamin D Metabolism, March 2015 for NUTR 446 *Nutrient Metabolism* 2015
Lecture: Iodine Metabolism, April 2015 for NUTR 446 *Nutrient Metabolism* 2015

UNDERGRADUATE THESIS SUPERVISOR:

1) Arimani Caprio (2015-2016) The Pennsylvania State University, University Park, PA
Thesis: The influence of child weight status, food-consuming behaviors, child sex and loss of control eating upon eating in the absence of hunger in 7-11 year-old children.

HS PROJECT SUPERVISOR:

1) Carly Belko (2015 - 2016) State College High School, State College, PA

2) Lylian Wang (2015 - 2015) State College High School, State College, PA

3) Reshma Babukutty (2012-2013) Manhattan Center for Science and Mathematics, NYC
Project: A Method to Determine Differences in Pup Ultrasonic Vocalizations
Awards: Honorable Mention, The New York Section of the American Chemical Society and St. Joseph's College: The 20th Annual High School Poster Session

4) Tiffany Mak (2011) Townsend Harris High School, Queens College, NYC
Project: Behavioral responses of rat pups to different sound stimuli
Award: Preliminary Round Participant in the NYSCEF
Submitted to: INTEL Science Talent Search 2012

5) Christine Chu (2010) Brooklyn Technical High School, NYC
Project: The Effect of Cross-Fostering on Auditory Maturation in Rats
Submitted to: NYSCEF Summer Research Program

UNDERGRADUATE RESEARCH SUPERVISOR:

Nicole Reigh (2016 – 2017)	The Pennsylvania State University, University Park, PA
Carly Belko (2015 –2017)	The Pennsylvania State University, University Park, PA
Lauren Firetto (2016 – 2017	The Pennsylvania State University, University Park, PA
Morgan Devine (2016)	The Pennsylvania State University, University Park, PA
Melanie Burland (2015)	The Pennsylvania State University, University Park, PA
Belkys Cespede (2015)	The Pennsylvania State University, University Park, PA
Elisabeth Kelsey (2015)	The Pennsylvania State University, University Park, PA
Megan Lasko (2014-2015)	The Pennsylvania State University, University Park, PA
Alexandra Close (2014 - 2016)	The Pennsylvania State University, University Park, PA
Rachel Bloom (2013- 2014)	The Pennsylvania State University, University Park, PA
Mairim Melecio-Vazquez (2012-2013)	City College of New York, NY, NY
Grace Tsui (2011-2013)	City College of New York, NY, NY
Daphne Chang (2011-2013)	City College of New York, NY, NY

VISTING SCHOLAR RESEARCH SUPERVISOR:

Chloe Blanchard (2016)	The Pennsylvania State University, University Park, PA
Camille Thibault (2016)	The Pennsylvania State University, University Park, PA
Eleanor Brian (2015 – 2016)	The Pennsylvania State University, University Park, PA
Oskar Sietz (2015 – 2016)	The Pennsylvania State University, University Park, PA
Meline Rabergeau (2015)	The Pennsylvania State University, University Park, PA
Ophelie Goigoux (2015)	The Pennsylvania State University, University Park, PA
Hannes Rehl (2014-2015)	The Pennsylvania State University, University Park, PA
Cecile Baundry (2014)	The Pennsylvania State University, University Park, PA
Odile PIettre (2014)	The Pennsylvania State University, University Park, PA

INVITED TALKS:

Vermont Center of Behavior and Health, University of Vermont September 2017
"Food or money: that is the question." Understanding how the brain response to rewards is related to child body weight and food intake in 7-11-year-old children.

Department of Nutrition Colloquium, Pennsylvania State University April 2017
"Does the brain respond similar to food and money?"

Department of Nutrition Colloquium , Pennsylvania State University January 2016
"Understanding decision-making and reward for food choice in children"

SERVICE & LEADERSHIP:

Pennsylvania Junior Academy of Science Judge	2016
Communications Committee Society for the Study of Ingestive Behavior	2015 - present
Awards Committee, Penn State University Nutrition Graduate Student Association	2015 - 2017
Metabolic Kitchen Laboratory Dietetics Workshop Presenter	2013 – 2017
President, Penn State University Nutrition Graduate Student Association (NGSA)	2014 - 2015

FUNDING:

1. **Completed**

A. Name of project: Understanding food tastes: is there a stigma for vegan food products?
Principal Investigator: Shana Adise
Source of Funding: Gardein Protein International Inc., & Amy's Kitchen
Total Award Amount: $500 plus food samples Start Date: 05/2010 End Date: 08/2012
Candidate's Role: Principal Investigator Percent Effort: 25%
Brief Description of Intellectual Contribution: The goal of this project was to understand if there were differences in consumers liking, willingness to try, disgust and familiarity ratings of vegan food products versus their animal counterparts. The candidate provided expertise in experimental design, data collection and analysis, and manuscript preparation.

B. Name of project: Neurobiological investigations of reward circuitry in children.
Principal Investigator: Shana Adise, BS
Source of Funding: Social, Life, and Engineering Sciences Imaging Center (SLEIC) at Penn State
Total Award Amount: $39,000 (65 hrs of MRI scans) Start Date: 02/16/2016 End Date: 02/15/2017
Candidate's Role: Principal Investigator Percent Effort: 25%
Brief Description of Intellectual Contribution: The goal of this project is to investigate the reward circuitry in children 7-11 years old. The candidate wrote the grant proposal, designed the study, collected data, analyzed data and manuscript preparation.

C. Name of project: The Role of Reward and Inhibitory Control Pathways in Overeating in Healthy and Overweight Children
Principal Investigator: Shana Adise, BS
Source of Funding: USDA Childhood Obesity Prevention Training Grant Seed Grant#2011-67001-30117 Program A2121.
Total Award Amount: $14,994 Start Date: 01/01/2016 End Date: 12/31/2017
Candidate's Role: Principal Investigator Percent Effort: 25%
Brief Description of Intellectual Contribution: The goal of this project is to investigate the neurobiological correlates of decision-making and their relationship to actual food intake in children varying by weight status. The candidate wrote the grant proposal, designed the study, collected data, analyzed data and manuscript preparation.

D. Name of project: Examining the Relationship between Puberty and Reward Sensitivity in Overweight and Healthy Weight Adolescents

Principal Investigator: Charles F. Geier, Ph.D.
Source of Funding: USDA Childhood Obesity Prevention Training Grant Seed Grant#2011-67001-30117 Program A2121.
Total Award Amount: $15,000 Start Date: 01/01/2016 End Date: 12/31/2017
Candidate's Role: Co-Investigator Percent Effort: 10%
Brief Description of Intellectual Contribution: The goal of this project is to assess the role of puberty on decision-making and food intake in adolescents. The candidate assisted with the grant proposal, study design, data collection, data analysis and manuscript preparation.

E. Name of project: Understanding Decision-Making and Reward for Food Choice in Overweight and Healthy Weight Children
Principal Investigator: Shana Adise, BS
Source of Funding: USDA Childhood Obesity Prevention Training Grant Seed Grant#2011-67001-30117 Program A2121.
Total Award Amount: $15,004 Start Date: 07/01/2014 End Date: 12/31/2017
Candidate's Role: Principal Investigator Percent Effort: 25%
Brief Description of Intellectual Contribution: The goal of this project is to assess how decision-making differs in overweight and healthy weight children and how these differences might impact food choice. The candidate wrote the grant proposal, designed the study, collected data, analyzed data and manuscript preparation.

F. Name of project: Examining reward sensitivity, impulsivity, and habituation in healthy weight and overweight adolescents
Principal Investigator: Nicole J. Roberts, MS
Source of Funding: USDA Childhood Obesity Prevention Training Grant Seed Grant#2011-67001-30117 Program A2121.
Total Award Amount: $14,805 Start Date: 07/01/2014 End Date: 12/31/2017
Candidate's Role: Co-investigator Percent Effort: 10%
Brief Description of Intellectual Contribution: The goal of this project is to assess differences in decision-making by weight status in overweight and healthy adolescents and how that impacts food choice. The candidate assisted with grant proposal, study design, data collection, data analysis and manuscript preparation.

G. Name of project: Neural underpinnings of reward sensitivity in overweight and healthy weight adolescents.
Principal Investigator: Charles F. Geier, Ph.D.
Source of Funding: USDA Childhood Obesity Prevention Training Grant Seed Grant#2011-67001-30117 Program A2121.
Total Award Amount: $14,907 Start Date: 05/01/2015 End Date: 12/31/2017
Candidate's Role: Co-investigator Percent Effort: 10%
Brief Description of Intellectual Contribution: The goal of this project is to assess neurobiological differences in food reward by weight status in overweight and healthy adolescents. The candidate assisted with grant proposal, study design, data collection, data analysis and manuscript preparation.

TECHNICAL SKILLS:

EQUIPMENT/ PROCEDURES:

1) EEG (BioSemi)
    a. Electrode placement (EEG & EKG)
2) Eye-tracking
3) fMRI data acquisition
4) Food Preparation

SOFTWARE:

1) Eye-link
2) Grass Twin Database
3) Presentation (basic-proficiency)
4) E-Prime
5) BESA
6) MATLAB (moderate proficiency)
7) Brain Voyager
8) LISREL (basic-proficiency)
9) SPSS
10) Igor Pro
11) Noldus
12) AFNI
13) FSL (basic-proficiency)
14) Python (moderate proficiency)