

Jason Fitzgerald Smith, Ph.D.

Associate Research Scientist

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Overview: I am an Assistant Research Scientist in the Department of Psychology at the University of Maryland, College Park. I have 20 years of experience with all aspects of magnetic resonance imaging (MRI) from optimal experimental design and data acquisition to advanced analytic techniques and publication. Over the past decade, I have developed considerable expertise with imaging subcortical circuits (hippocampus, extended amygdala) involved in fear, anxiety, and stress and have developed new techniques for the spatial normalization of MRI data. I also have experience working with behavioral (eye-tracking) and psychophysiological measures (electrodermal activity). Throughout this period, I have played a regular role in mentorship, laboratory administration, and system/IT administration. I have provided data analysis expertise and practical, immersive training for three successful dissertations, three masters theses, one NACS first-year project, and multiple undergraduate honors theses. I oversee a computational server cluster with four nodes and 72 total cores, 580GB memory, and over 150TB storage plus two high performance workstations with 24 total cores. I am a skilled programmer in Matlab, bash, and C and experienced with common imaging software packages (e.g. FSL, AFNI, SPM, ANTS) and all aspects of neuroimaging processing and analysis. I have been supported by ten federally and state sponsored projects (nine as co-I or Staff Scientist). I regularly work and consult with the staff and the director of the Maryland Neuroimaging Center (MNC), where I am certified to independently operate the Siemens TIM Trio 3T scanner. I also conceived of and currently serve as the coordinator for the NeuroIMaging Back-Up Server (NIMBUS), which provides 390TB of back-up storage for the UMD neuroimaging community.

Professional Experience:

<u>2014-Present</u>	Assistant Research Scientist, Department of Psychology, UMD
<u>2011-2014</u>	Research Fellow, Brain Imaging and Modeling Section, NIDCD
<u>2008-2011</u>	Post-Doctoral Fellow, Brain Imaging and Modeling Section, NIDCD <i>Supervisor: Barry Horwitz.</i>
<u>2005-2008</u>	Research Assistant, Brain Imaging and Modeling Section, NIDCD <i>Supervisor: Barry Horwitz.</i>
<u>2001-2005</u>	Research Assistant, Neuroimaging Analysis Laboratory, ASU and Arizona Alzheimer's Research Center <i>Supervisor: Gene E. Alexander.</i>
<u>1997-2001</u>	Post Baccalaureate Research Assistant, Center for Cognitive Neuroscience, Temple University <i>Supervisor: Eleanor M. Saffran.</i>

Education:

- 2008** **Ph.D. (Psychology, Cognitive and Behavioral Systems)**
Arizona State University
Dissertation: *Imaging spatiotemporal transformations in the functional neuroanatomy of lexical memory*
Advisor: Gene E. Alexander
- 2004** **M.A. (Psychology, Cognitive and Behavioral Systems)**
Arizona State University
- 1997** **B.A. *Cum Laude* (Dual Major: Cognitive Psychology / Philosophy)**
University of North Carolina, Charlotte

Awards and Scholarships:

National Science Foundation Graduate Fellowship, Honorable Mention: 2002.
University Graduate Scholar Award: Department of Psychology, Arizona State University, 2001-2004.
National Science Foundation Graduate Fellowship, Honorable Mention: 2001.

Sponsored Research:

Current Support

NIMH R01 MH121409

June 2020 - April 2025. Co-I. Using multimodal neuroimaging and real-world experience sampling to understand negative affect and paranoid ideation in psychosis.

NIMH R01 MH107444

April 2016 - January 2022. Co-I. Prospective determination of neurobehavioral risk for the development of emotion disorders.

NIMH R01 MH122487

March 2021 – February 2026. Co-I. Neural Mechanisms of Risk and Resilience for Irritability Across the Transition to Adolescence.

NIMH R01 MH110462

August 2016 – May 2022. Staff Scientist. Understanding social affiliative deficits in psychopathology.

NIMH R01 MH121385

September 2020 – June 2025: Consultant. Neural Mechanisms of Risk and Resilience in Early Childhood.

Prior Support

UMD BBI Seed Grant

May 2018 - May 2019: Co-I. Understanding the role of negative affect in psychosis using multimodal imaging and wearable sensors.

NIDA R21 DA040717

July 2016 - June 2019. Co-I. The role of anxiety-related brain circuits in tobacco dependence and withdrawal.

NIDA R00 DA038589

June 2016 - May 2019: Staff Scientist. Impulsivity and youth risk-taking: Prospective behavioral and neural assessment.

NIMH R01 MH107441

July 2016 - April 2021. Staff Scientist. Brain network dynamics contributing to atypical social interaction in autism.

Under Review

1R01AA030042-01/GRANT13376329

Submitted 2021. Co-I. Using Computational Neuroimaging and Extended Smartphone Assessment to Understand the Pathways Linking Threat-Related Brain Circuits to Alcohol Misuse.

Unfunded

R01MH128204

Submitted. Co-I. Theory-Driven and Data-Driven Computational Approaches to Understanding the Brain Bases of Anxious Uncertainty.

R01MH125843

Submitted. Co-I. Prospective Determination of Neuroaffective Risk for the Development of Internalizing Illness Under Stress.

R01MH110398

Submitted. Co-I. Prospective Determination of Neurobehavioral Risk for Adolescent Anxiety Disorders.

R21DA050907

Submitted. Co-I. The Effects of Psycho-social Stress on Response Inhibition: An fMRI Investigation in Opioid Use Disorder, Methadone Maintained Individuals.

R21DA046554

Submitted. Co-I Neural Investigation of the Link Between Response Impulsivity and Blunted Stress Reactivity: Implications for Substance Use.

R21DA046007

Submitted. Co-I. Behavioral and Neural Links Between Stress and Impulsivity: Substance Use Implications.

R21DA045852

Submitted. Co-I. The Neural Targets of a Cognitive Intervention to Reduce Choice Impulsivity.

Publications:

Google Scholar Metrics

Total Citations: 775

H-Index: 11

Peer-Reviewed Articles

Hur, J, **Smith, JF**, DeYoung, KA, Anderson, AS, Kuang, J., Kim, HC, Tillman, RM, Kuhn, M, Fox, AS, & Shackman, AJ (2020). Anxiety and the neurobiology of temporally uncertain threat anticipation. *Journal of Neuroscience*, 40, 7949-7964.

Hamilton, KR, **Smith, JF**, Gonçalves, SF, Nketia, JA, Tasheuras, ON, Yoon, M, Rubia, K, Chirles, TJ, Lejuez, CW, & Shackman, AJ (2020). Striatal bases of temporal discounting in early adolescents. *Neuropsychologia*, 144, 107492.

Hur, J, Kaplan, CM, **Smith, JF**, Bradford, DE, Fox, AS, Curtin, JJ, & Shackman, AJ (2018). Acute alcohol administration dampens central extended amygdala reactivity. *Scientific Reports*, 8, 16702.

Tillman, RM, Stockbridge, MD, Nacewicz, BM, Torrisi, S, Fox, AS, **Smith, JF**, & Shackman, A J, (2018). Intrinsic functional connectivity of the central extended amygdala. *Human Brain Mapping*, 39, 1291-1312.

Xu, B, Sandrini, M, Wang, WT, **Smith, JF**, Sarlls, JE, Awosika, O, Butman, JA, Horwitz, B, & Cohen, LG (2016). PreSMA stimulation changes task-free functional connectivity in the fronto-basalganglia that correlates with response inhibition efficiency. *Human Brain Mapping*, 37 (9), 3236–3249.

Coderre, EL, **Smith, JF**, van Heuven, WJB & Horwitz, B (2016). The Functional Overlap of Executive Control and Language Processing in Bilinguals. *Bilingualism: Language and Cognition*, 19(3), 471-488.

Smith, JF, Braun, AR, Alexander, GE, Chen, K, & Horwitz, B (2013). Separating lexical access from other mnemonic processes in picture-name verification. *Frontiers in Psychology: Language Sciences*. 4: 706. doi: 10.3389/fpsyg.2013.00706

Smith, JF, Chen, K, Pillai, AS, Horwitz, B (2013). Identifying effective connectivity parameters in simulated fMRI: a direct comparison of switching linear dynamic system, stochastic dynamic causal, and multivariate autoregressive models. *Frontiers in Brain Imaging Methods*. 7:70. doi: 10.3389/fnins.2013.00070

Banerjee, A, Pillai, AS, Sperling, JR, **Smith, JF**, & Horwitz B (2012). Temporal microstructure of cortical networks underlying task related differences. *NeuroImage*. 62(3): 1643-57

Smith, JF, Pillai, A, Chen, K, & Horwitz B (2012). Effective connectivity Analysis for fMRI: Six issues and possible solutions using linear dynamic systems. *Frontiers in Systems Neuroscience* 5:104. doi: 10.3389/fnsys.2011.00104

Husain, FT, Pajor, NM, **Smith, JF**, Kim, HJ, Rudy, S, Zallewski, C, Brewer, C, & Horwitz, B (2011). Discrimination task reveals differences in neural bases of tinnitus and hearing impairment. *PLoS ONE* 6(10): e26639.

Smith, JF, Pillai, A, Chen, K, & Horwitz, B (2010) Identification and validation of effective connectivity networks in functional magnetic resonance imaging using switching linear dynamic systems. *NeuroImage* 52: 1027-1040.

Smith, JF, Alexander, GE, Chen, K, Husain, FT, Kim, J, Pajor, N, & Horwitz B (2010). Imaging systems level consolidation of novel semantic-like memories: A longitudinal neuroimaging study. *NeuroImage* 50(2): 826-836.

Xu, J, Gannon, PJ, Emmorey, K, **Smith, JF**, & Braun, AR (2009). Symbolic gestures and spoken language are processed by a common neural system. *Proceedings of the National Academy of Sciences USA*. Doi: 10.1073/pnas.0909197106.

Smith, JF, Chen, K, Johnson, S, Morrone-Strupinsky, J, Johnson, SC, Reiman, EM, Nelson, A, Moeller, JR, & Alexander, GE (2006). Network analysis of single-subject fMRI during a finger opposition task. *NeuroImage* 32(1): 325 -332.

Invited Reviews

Horwitz, B & **Smith, JF** (2008). A link between neuroscience and informatics: Large-scale modeling of memory processes. *Methods* 44(4): 338-347

Technical Reports

Smith, JF, Hur, J, Kaplan, CM, & Shackman, AJ (2018). The impact of spatial normalization for functional magnetic resonance imaging data analyses revisited. Available at bioRxiv.org

Manuscripts Under Review

Hur, J, Kuhn, M, Grogans, SE, Anderson, AS, Islam, S, Kim, HC, Tillman, RM, Fox, AS, **Smith, JF**, DeYoung, KA, Shackman, AJ (under review). Anxiety-related fronto-cortical activity is associated with dampened stressor reactivity in the real world. Preprint available at bioRxiv

Manuscripts In Preparation

Bas-Hoogendam, JM, Bernstein, R, Benson, BE, Buss, KA, Gunther KE, Pérez-Edgar, K, Salum, GA, Pan, PM, Jackowski, AP, Bressan, RA, Zugman, A, Degnan, KA, Filippi, CA, Fox, NA, Henderson, HA, Tang, A, Zeytinoglu, S, Harrewijn, A, Hillegers, MHJ, Jansen, PW, Muetzel, RL, White, TJH, Schwartz, C, Rauch, SL, Felicione, JM, Biederman, J, Rosenbaum, JF, Hirshfeld-Becker, DR, DeYoung, KA, Shackman, AJ, **Smith, JF**, Tillman, RM, Hill, SY, Battaglia, M, Tettamanti M, Dougherty, LR, Jen, FJ, Klein, DN, Leung, H-C, Avery, SN, Blackford, JU, Clauss, JA, Hayden, EP, Liu, P, Vandermeer, MRJ, Goldsmith, HH, Nichols, TE, Thompson, PM, Westenberg, PM, van der Wee, NJA, Groenewold, NA, Stein, DJ, Winkler, AM, Pine, DS, & the ENIGMA-Anxiety Working Group. Structural brain correlates of childhood inhibited temperament: an ENIGMA-Anxiety mega-analysis [Registered Report]. *Journal of the American Academy of Child and Adolescent Psychiatry*.

Barstead, MG, DeYoung, KA, Anderson, AS, Islam, S, Weinstein, JS, Hur, J, Grogans, SE, **Smith, JF**, Kuhn, M, Fox, AS, & Shackman, AJ. Dispositional negativity and the momentary challenges of daily life and the laboratory: Dissecting the pathways underlying pervasive misery.

Shackman, AJ, Furman, AJ, Keaser, ML, Payano Sosa, JS, Stockbridge, MD, Padmala, S, Fox, AS, Pessoa, L, **Smith, JF**, Woo, C-W, Wager, TD, & Seminowicz, DA. The integration of negative affect, pain and cognitive control in the midcingulate cortex.

Invited Presentations:

Smith, JF (2020). Quality Control for fMRI. Invited lecture series for the Lab of Cognitive and Social Neuroscience, National Institute of Mental Health, Klecany, Czech Republic

Smith, JF (2013). Effective connectivity revisited. Invited presentation, Center for the Advanced Study of Language, College Park Maryland

Smith, JF (2012). Temporal and spatial non-stationarity in effective connectivity. Invited presentation at Symposium "From Static to Dynamic Descriptions: Non-Stationarity in Functional and Effective Brain Connectivity", Organization for Human Brain Mapping 17th Annual Meeting, Beijing China

Smith, JF (2012). On the role of noise in effective connectivity analysis. Invited presentation at 11th Annual Brain Connectivity Workshop, Chengdu China

Smith, JF (2012). Caveats for the analysis of resting state fMRI data. Invited presentation for Division of Neuroscience, National Institute on Aging, Bethesda Maryland

Smith, JF (2011). Effective connectivity modeling for fMRI. Invited presentation for Principle Investigator Seminar Series, National Institutes of Health, Bethesda Maryland

Smith, JF (2010). Effective connectivity Analysis for fMRI: Six issues and possible solutions using linear dynamic systems. Invited presentation for the “Networks in the Human Brain” workshop, Max Plank Institute for Human Cognitive and Brain Sciences, Leipzig Germany

Smith, JF (2009). Identification and validation of generative models of effective connectivity networks in fMRI and combined fMRI/EEG. Invited presentation for the Applied Neuroscience Seminar, Center for the Advanced Study of Language, College Park Maryland

Smith, JF (2009). Systems level consolidation of semantic memory: neuroimaging analysis and steps toward a generative model. Invited presentation for the Neurocognitive Aging Section, National Institute on Aging, Baltimore Maryland

Conference Presentations:

Grogans, SE, Hur, J, Barstead, MG, Anderson, AS, Islam, S, Kim, HC, Kuhn, M, Tillman, RM, Fox, AS, **Smith, JF**, DeYoung, KA, & Shackman, AJ (2021). Neuroticism/negative emotionality is associated with increased reactivity to uncertain threat in the bed nucleus of the stria terminalis. Poster accepted at the annual meeting of the Society for Neuroscience, Chicago, IL.

Kim, HC, **Smith, JF**, Islam, S, Anderson, AS, Kaplan, CM, DeYoung, KA, Grogans, SE, Fox, AS, Bradford, DE, Curtin, JJ, & Shackman, AJ (2021). The role of the central extended amygdala in acute nicotine abstinence. Poster accepted at the annual meeting of the Society for Neuroscience, Chicago, IL.

Grogans, SE, Hur, J, Anderson, AS, Islam, S, Kim, HC, Kuhn, M, Tillman, RM, Fox, AS, **Smith, JF**, DeYoung, KA, & Shackman, AJ (2021). Neuroticism/Negative Emotionality is associated with elevated activation in the bed nucleus of the stria terminalis during uncertain-threat anticipation. Poster presented at the annual meeting of the Wisconsin Symposium on Emotion

Kuhn, M, Kaplan, CM, Hur, J, Bradford, DE, Fox, AS, Curtin, JJ, **Smith, JF**, & Shackman, AJ (meeting canceled). Neural systems underlying the anxiolytic effects of ethyl alcohol in humans. Poster presented at the annual European Meeting of Human Fear Conditioning, Bochum, Germany

Hur, J, **Smith, JF**, DeYoung, KA, Kuang, J, Anderson, AA, Tillman, RM, Kim, HC, & Shackman, AJ (2019). The neurobiological substrates of uncertain and certain threat. Poster presented at the annual meeting of the Society of Biological Psychiatry, Chicago, IL

Kim, HC, Hur, J, **Smith, JF**, DeYoung, KA, Kuang, J, Anderson, AA, Tillman, RM, & Shackman, AJ (2019). Neurobiological reactivity to uncertain and certain threat. Poster presented at the annual meeting of the Social and Affective Neuroscience Society, Miami, FL

Hur, J, **Smith, JF**, DeYoung, KA, Kuang, J, Anderson, AA, Tillman, RM, Kim, HC, & Shackman, AJ (2019). The neurobiology of anticipating uncertain and certain threat. Poster presented at the annual meeting of the Anxiety and Depression Association of America, Chicago

Blanchard, JB, Choe, EK, Andrea, AM, DeYoung, KA, Orth, RD, **Smith, JF**, Bennett, M, Anticevic, A, Kim, YH, Chundury, P & Shackman, AJ (2018). Understanding the role of negative affect in psychosis using multimodal imaging and wearable sensors. Talk presented at the annual Brain and Behavior Institute Seed Grant Symposium, College Park, MD

Hur, J, **Smith, JF**, DeYoung KA, Kuang, J, Anderson, AA, Tillman, RM, Kim, HC, & Shackman, AJ (2018). The neurobiology of anticipating uncertain and certain threat. Poster presented at the annual meeting of the Anxiety and Depression Association of America, Washington, DC

Hur, J, Kaplan, CM, Bradford, DE, Curtin, JJ, **Smith, JF**, & Shackman, AJ (2018). Acute alcohol administration dampens threat-related activation in the central extended amygdala. Poster presented at the annual meeting of the Anxiety and Depression Association of America, Washington, DC

Stockbridge, MD, Furman, AJ, Keaser, ML, Sosa, JSP, Padmala, S, Fox, AS, Pessoa, AS, **Smith, JF**, Seminowicz, DA, & Shackman, AJ (2017). Negative affect, pain, and cognition are integrated in the cingulate cortex. Poster presented at the annual meeting of the Society for Neuroscience, Washington, DC

Tillman, RM, Stockbridge, MD, Nacewicz, BM, **Smith, JF**, & Shackman, AJ (2017). Functional architecture of central extended amygdala networks. *Biological Psychiatry*, 81, S52

Kaplan, CM, Brinkman, M, Pessoa, L, **Smith, JF**, & Shackman, AJ (2016). The neurobiology of fear and anxiety: Circuits engaged by certain and uncertain threat. Poster presented at the annual meeting of the Society for Neuroscience, San Diego, CA

Kaplan, CM, Brinkman, M, Pessoa, L, **Smith, JF**, & Shackman, AJ (2016). Understanding the neurobiology of fear and anxiety. Poster presented at the annual meeting of the Society of Research in Psychopathology, Baltimore, MD. ** selected for a poster/travel Award

Coderre E, **Smith JF**, van Heuven W, Horwitz B (2013). The Neural Locus of the Bilingual Cognitive Advantage. Poster presented at the Cognitive Neuroscience Annual Meeting, San Francisco, CA

Pillai AS, **Smith JF**, Gilbert JR, Holroyd T, Bennet Y, Horwitz B (2010). MEG Power Difference in Human Auditory Cortex During a Crossmodal, Long-term Memory Task. Poster presented at the Organization for Human Brain Mapping 16th Annual Meeting, Barcelona.

Banerjee A, Pillai AS, **Smith JF**, Horwitz B (2010). A method to compare timing of task related differences in MEG/EEG network dynamics. Poster presented at the Organization for Human Brain Mapping 16th Annual Meeting, Barcelona.

Smith JF, Horowitz S, Pillai A, Horwitz B (2009). Identifying quasi-neural level task related connectivity in simultaneous EEG/fMRI using a single non-stationary dynamic system. Presentation given to the Workshop on Connectivity Inference in Neuroimaging, Neural Information Processing Systems Conference. Whistler BC.

Smith JF, Pillai A, Chen K, Horwitz B (2009). Identification and validation of nonlinear forward models of effective connectivity networks using switching dynamic systems. Poster presented at the Society for Neuroscience, 39th Annual Meeting, Chicago, IL.

Smith JF, Chen K, Horwitz B, Alexander GE (2009). Temporal evolution of performance related regional networks for visual-to-auditory memory. Poster presented at the Organization for Human BrainMapping 15th Annual Meeting, San Francisco, CA.

Smith JF, Alexander GE, Chen K, Braun AR, Horwitz B (2008). Assessing the functional organization of visual-semantic memory: An fMRI study of linguistic and non-linguistic visual-to-auditory associations. Poster presented at the Society for Neuroscience, 38th Annual Meeting, Washington, DC.

Smith JF, Husain TH, Pajor NM, Goldinger S, Chen K, Alexander GE, Horwitz B (2007). Functional Neuroimaging of Immediate, Remote, and Linguistic Visual-to-Auditory Paired Associates Memory. Presentation given at Society for Neuroscience, 37th Annual Meeting, San Diego, CA. Presentation

Husain FT, Pajor NM, **Smith JF**, Zalewski Z, Rudy S, Braun AR, Kim HJ, Brewer C, Horwitz B (2007). Auditory processing in persons with hearing loss and tinnitus: an fMRI study. Society for Neuroscience, 37th Annual Meeting, San Diego, CA.

Thai-Van H, **Smith JF**, Kim J, Husain F, Kemeny S, Braun AR, Horwitz B (2006). Focused and divided attention and short-term memory to concurrent auditory and visual information. Poster presented at the Society for Neuroscience, 36th Annual Meeting, Atlanta, GA.

Smith JF, Thai-Van H, Chen K, Johnson S, Reiman EM, Moeller JR, Horwitz B, Alexander GE (2006). Multivariate Analysis of Functional Networks and Sub-Networks in Single Subject fMRI. Poster presented at the Organization for Human Brain Mapping 12th Annual Meeting, Florence Italy.

Alexander GE, Gupta A, Chen K, Pipe JG, Santerre-Lemmon LE, **Smith JF**, Reiman EM, Baxter LC (2005). Effect of age on regional white matter integrity assessed by diffusion tensor imaging. Poster presented at the Annual Meeting of the Arizona Alzheimer's Research Center, Phoenix, AZ.

Smith JF, Chen K, Morrone-Strupinsky JV, Reiman EM, Nelson A, Moeller JR, Alexander GE (2003). Regional Network Analysis of Single Subject fMRI During the Performance of a Finger Tapping Task. Presentation given to the Society for Neuroscience 33rd Annual Meeting, New Orleans, LA.

Smith JF, Stone GO (2002). Dynamic Allocation of Levels of Processing in Written Word Perception. Presentation given to the 3rd Pre-Psychonomics Lexical Processing Workshop, Tuscon, AZ, November 20-21.

Smith JF, Chen K, Moeller JR, Reiman EM, Pietrini P, Rice HJ, Lewis DJ, Davis DA, KrasuskiJS, Teipel SJ, Hampel H, Rapoport SI, Schapiro MB, Grafman J, Alexander GE (2002). Regional network analysis of gray matter atrophy in frontotemporal dementia using voxel-based MRI morphometry and a principal component analysis. Poster presented at the Annual Meeting of the Arizona Alzheimer's Research Center, Scottsdale, AZ.

Research Supervision and Professional Mentorship:

Mentored Postdoctoral Fellows

J. Hur, 2017-2020. Currently an Assistant Professor, Department of Psychology, Yonsei University, Seoul, South Korea.

M. Kuhn, 2019-2020. Currently a postdoctoral fellow at the Center for Depression, Anxiety, and Stress Research, McLean Hospital, Harvard Medical School

Mentored and Trained Graduate Students

C. Kaplan (clinical), 2014-2017
R. Tillman (clinical), 2014-2021
K. Bradshaw (clinical), 2016-2018
H. Kim (neuroscience), 2019-
S. Grogans (clinical), 2019-

Co-Supervised Post-Baccalaureate Fellows/Project Coordinators

A. Anderson, 2017-2018
Currently a graduate student (clinical) at Vanderbilt University
S. Islam, 2017-2019
Currently a graduate student (clinical) at the University of Pennsylvania
L. Craig, 2018-2019
Currently a project coordinator at George Mason University
J. Wedlock, 2019-

Mentored Veterans Administration Clinical Research Internship

S. Cooper, 2018-2019
Currently a postdoctoral fellow in the Department of Psychiatry, University of Texas, Austin

Ph.D. Data Analysis Contributions

J. McCarthy (J. Blanchard, PI), Department of Psychology, 2016
K. Bradshaw (J. Blanchard, PI), Department of Psychology, 2018
R. Tillman (A.J. Shackman, PI), Department of Psychology, 2021

Masters Data Analysis Contributions

R. Tillman, Department of Psychology, 2016
C. Kaplan, Department of Psychology, 2017
S. Grogans, Department of Psychology, 2021

Undergraduate Data Analysis Contributions

R. Hum, Department of Biology, 2019
H. Kim, Maryland Summer Scholars Award, Maryland Center for Undergraduate Research, 2019

Graduate Research Fellowships, National Science Foundation (NSF)

R. Tillman (Honorable Mention), 2015
C. Kaplan, 2016-19
S. Grogans (Honorable Mention), 2019
S. Grogans (Honorable Mention), 2020

Mentored Student Fellowships and Awards

G. Kim, 2020-2022
Computation and Mathematics for Biological Networks (COMBINE) Fellowship, National Science Foundation-Supported Research Traineeship Program (DGE-1632976; M. Girvan, PI) (2-year program / 1-year stipend)

R. Tillman, 2019-2020
Ann G. Wylie Dissertation Fellowship, University of Maryland

R. Tillman, 2019-2020
Graduate Student Clinical Excellence Award, Clinical Psychology Program, University of Maryland

S. Grogans, 2019-24
Best Practices (Sponsored by the NIH and Stanford Center for Reproducible Neuroscience)

S. Grogans, 2019
Advanced Training in Methodology and Statistics Award, Department of Psychology, University of Maryland

R. Tillman, 2017
Fellowship/Travel Award, Tools of Trade Workshop: Human Neuroimaging Methods and Flagship Fellowship, University of Maryland

C. Kaplan, 2016
Poster/Travel Award, Society for Research in Psychopathology (SRP)

Undergraduate Student Research Training and Co-Supervision

2019-20 (8 students)

Y. Boumaiz, J. Dixon, A. Graninger, D. Mbulaiteye, M. Rogers, J. Sandoval, L. Shapiro, H. Zawitoski

2018-19 (10 students)

M. Albedi, Y. Boumaiz, R. Hum, D. Limon, N. Kelso, G. Kim, M. Rogers, J. Sandoval, M. Shinnick, H. Zawitoski

2017-18 (11 students)

A. Antonacci, Y. Boumaiz, J. Furcolo, C. Grubb, R. Hum, H. Johnson, G. Kim, C. Okeke, J. Robinson, R. Surasinghe, M. Vogel

2016-17 (15 students)

A. Anderson, A. Antonacci, K. Bohlke, M. Chen, M. Dib, M. Hawley, R. Hum, A. Frederique, C. Grubb, J. Furcolo, G. Kim, J. Kuang, J. Stimely, M. Skibniewska, M. Vogel

2015-16 (12 students)

J. Aepfelbacher, C. Bloomer, K. Bohlke, V. Bonetti, M. Brinkman, J. Kang, A. Silver, M. Skibniewska, J. Stimely, J. Swayambunathan, J. Vadhan, C. Zacarias

Selected Media Coverage:

January 5, 2021: <https://www.theravive.com/today/post/understanding-the-neurobiology-of-anxiety-0004680.aspx>

November 3, 2020: <https://www.smithsonianmag.com/science-nature/anxious-about-results-heres-whats-happening-your-brain-you-wait-180976191/>

October 20, 2020: <https://www.technologynetworks.com/neuroscience/news/imaging-study-suggests-fear-and-anxiety-are-not-orchestrated-by-distinct-neural-networks-341806>

October 20, 2020: <https://www.pourquidocteur.fr/Articles/Question-d-actu/34191-La-peur-l-anxiete-emotions-jumelles-cerveau>

October 19, 2020: <https://www.sciencedaily.com/releases/2020/10/201019164939.htm>

October 19, 2020: <https://www.earth.com/news/fear-and-anxiety-share-a-common-network-in-the-brain/>

October 12, 2020: <https://today.umd.edu/articles/uncovering-shared-roots-fear-and-anxiety-1a369190-8961-4077-9b77-56c9d743f578>

October 1, 2020: <https://www.axios.com/anxiety-uncertainty-brain-a53b5f3c-00b6-4888-b40f-da986fad4987.html>

September 21, 2020: <https://scitechdaily.com/contradicting-previous-theories-neuroscientists-find-overlap-between-fear-and-anxiety-brain-circuits/>

September 21, 2020: <https://neurosciencenews.com/fear-anxiety-circuits-17060/>

September 21, 2020: <https://medicalxpress.com/news/2020-09-overlap-anxiety-brain-circuits.html>

September 21, 2020: <https://www.the-scientist.com/news-opinion/brain-circuitry-for-fear-and-anxiety-is-the-same-on-fmri-67949>

November 12, 2018: <https://today.umd.edu/articles/how-alcohol-dilutes-anxiety-f958169c-f9ba-41eb-bc60-aa6bd24409c0>

Notarization. I have read the following and certify that this *curriculum vitae* is a current and accurate statement of my professional record.

Signature

A handwritten signature in black ink, consisting of several overlapping loops and a long horizontal stroke at the end.

Date

08/31/2021
