

**Shannon E. Grogans**  
Affective & Translational Neuroscience Laboratory  
University of Maryland | Department of Psychology  
0144 Biology-Psychology Building, College Park, MD, 20742, USA  
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## **EDUCATION**

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### **University of Maryland, College Park (2019-present)**

Doctoral Candidate in Clinical Psychology, Mentor: Alexander Shackman, PhD  
M.S. (2021) - Thesis: *Understanding the relevance of extended amygdala reactivity to dispositional negativity*  
Dissertation (in progress): *Understanding the relevance of threat circuitry to the emergence and recurrence of internalizing illness in emerging adulthood*  
GPA: 3.98/4.00

### **Northwestern University (2012–2016)**

B.A., Cognitive Science (concentration in Cognitive Neuroscience) & Psychology, *Cum Laude*  
GPA: 3.81/4.00

## **RESEARCH EMPLOYMENT**

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### **Post-baccalaureate Research Fellow, Intramural Research Training Award Program (July 2016–July 2019)**

*Section on Integrative Neuroimaging, National Institute of Mental Health*  
Mentor: Karen F. Berman, MD

### **Laboratory Manager (June 2015–June 2016)**

*Affective & Clinical Neuroscience Laboratory, Northwestern University*  
Mentor: Robin Nusslock, PhD

### **Research Assistant (September 2014–June 2015)**

*Affective & Clinical Neuroscience Laboratory, Northwestern University*  
Mentor: Robin Nusslock, PhD

### **Research Assistant (June 2013–September 2013, June 2014–September 2014)**

*Center for Interdisciplinary Exploration & Research in Astrophysics, Northwestern University*  
Mentor: Melville Ulmer, PhD

## **HONORS, AWARDS, & FELLOWSHIPS**

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### **Wisconsin Symposium on Emotion Travel Award (2024)**

*HealthEmotions Research Institute, University of Wisconsin-Madison*

### **Dean's Fellowship (2023-2025)**

*Graduate School, University of Maryland, College Park*

### **Broadening Participation in Graduate Education Award (2023)**

*Department of Psychology, University of Maryland, College Park*

### **Ruth L. Kirschstein National Research Service Award (NRSA) to Promote Diversity in Health-Related Research (Diversity F31; F31-MH132280-01; August 2023-July 2025)**

Project Title: *Using Functional Neuroimaging and Smartphone Digital Phenotyping to Understand the Emergence of Internalizing Illness*

Role: Principal Investigator

Co-Sponsors: Alexander Shackman, PhD; Co-Sponsor: Daniel Pine, MD

Consultants: Christopher Conway, PhD; Lea Dougherty, PhD; Gregory Hancock, PhD

Total Proposed Costs: \$95,388

- Impact Score – 1<sup>st</sup> Submission (2022): 42 (36<sup>th</sup> percentile); **2<sup>nd</sup> Submission (2023): 10 (1<sup>st</sup> percentile)**

**Ann G. Wylie Dissertation Fellowship (awarded 2023; declined)**

*Graduate School, University of Maryland, College Park*

**Clinical Program Student Training Grant (2023)**

*University of Maryland Clinical Psychology Doctoral Program*

**Goldhaber Travel Award (2022 & 2023)**

*Graduate School, University of Maryland, College Park*

**Excellence in Graduate Research Award (2022)**

*University of Maryland Clinical Psychology Doctoral Program*

**Society for Social Neuroscience Reproducibility Award (2021)**

*Society for Social Neuroscience*

**Graduate Research Fellowship, Honorable Mention (2019 & 2020)**

*National Science Foundation*

**Advanced Training in Methodology & Statistics Award (2019 & 2023)**

*Department of Psychology, University of Maryland, College Park*

**Flagship Fellowship (2019-2024)**

*Graduate School, University of Maryland, College Park*

**Intramural Research Training Award (2016-2019)**

*National Institute of Mental Health*

**Campus Life Award (2015)**

*Northwestern University*

Awarded quarterly to recognize significant contributions to improving quality of student life; received for spearheading *Send Silence Packing*, a national suicide awareness/prevention event

**Cognitive Science Summer Undergraduate Research Fellowship (2015)**

*Cognitive Science Program, Northwestern University*

**Northwestern University Summer Undergraduate Research Grant (2015)**

*Office of Undergraduate Research, Northwestern University*

**NASA Undergraduate Summer Research Grant (2013 & 2014)**

*Department of Physics & Astronomy, Northwestern University*

**Women's Educational Aid Association Scholarship (2013-2016)**

*Women's Educational Aid Association, Northwestern University*

Scholarship and mentorship awarded to 5-7 high-achieving, low-income women from each Northwestern class

**Orlof Family Endowed Scholarship (2013-2016)**

### **J.G. Nolan Endowed Scholarship (2013-2016)**

Weinberg College of Arts & Sciences, Northwestern University

Endowed scholarship awarded to Weinberg College students with outstanding academic achievement and financial need

### **MANUSCRIPTS IN PREPARATION**

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**Grogans, S. E.\***, Hur, J.\*, Kuhn, M., Anderson, A. S., Islam, S., Kim, H. C., Tillman, R. M., Fox, A. S., Smith, J. F.†, DeYoung, K. A.†, & Shackman, A. J.† (*in prep*). Diminished vmPFC safety signaling is associated with pervasively elevated real-world negative affect.

Anderson, A. S., **Grogans, S. E.**, Wedlock, J., DeYoung, K. A., Barstead, M. G., Islam, S., & Shackman, A. J. (*in prep*). Black undergraduate students' experiences of microaggressions and discrimination: Risk and resilience.

Baez, L., DeYoung, K. A., Anderson, A. S., Islam, S., **Grogans, S. E.**, Conway, C. C., Shackman, A. J. & Heller, A.S. (*in prep*). Momentary emotional fingerprints of internalizing symptom facets. Preprint at *PsyArXiv*.

Barstead, M. G., DeYoung, K. A., Anderson, A. S., Islam, S., Weinstein, J. S., Hur, J., **Grogans, S. E.**, Smith, J.F., Kuhn, M., Fox, A. S., & Shackman, A. J. (*in prep*). Dispositional negativity and the momentary challenges of daily life and the laboratory: Dissecting the pathways underlying pervasive misery.

\* contributed equally | † contributed equally | underlined: student for whom I served as primary mentor

### **MANUSCRIPTS UNDER REVIEW**

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**Grogans, S. E.**, Hur, J., Barstead, M., Anderson, A.S., Islam, S. Kuhn, M., Tillman, R. M., Fox, A. S., Smith, J. F.†, DeYoung, K. A.†, & Shackman, A. J.† (*under review*). Neuroticism/negative emotionality is associated with increased reactivity to uncertain threat in the bed nucleus of the stria terminalis, not the amygdala. Preprint at *bioRxiv*.

### **PEER-REVIEWED PUBLICATIONS**

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Shackman, A. J., **Grogans, S. E.**, & Fox, A. S. (*in press*). Fear, anxiety, and the functional architecture of the human central extended amygdala. [Comment on Tseng et al., 2023]. *Nature Reviews Neuroscience*.

Conway, C. C., **Grogans, S. E.**, Anderson, A. S., Islam, S., Craig, L. E., Wedlock, J., Hur, J., DeYoung, K. A., & Shackman, A. J. (*in press*). Neuroticism is selectively associated with longitudinal increases in broadband internalizing symptoms, but not anhedonia or anxious arousal, in emerging adulthood. *Clinical Psychological Science*.

**Grogans, S. E.**, Bliss-Moreau, E., Buss, K., Clark, L. A., Fox, A. S., Keltner, D., Cowen, A. S., Kim, J. J., Kragel, P. A., MacLeod, C., Mobbs, D., Naragon-Gainey, K., Fullana, M. A., & Shackman, A. J. (2023). The nature and neurobiology of fear and anxiety: State of the science and opportunities for accelerating discovery. *Neuroscience & Biobehavioral Reviews*, 105237.

Richie-Halford, A., Cieslak, M., Ai, L., Caffarra, S., Covitz, S., Franco, A. R., Karipidis, I. I., Kruper, J., Milham, M., Avelar-Pereira, B., Roy, E., Sydnor, V. J., Yeatman, J., **The Fibr Community Science**

**Consortium**, Satterthwaite, T. D., & Rokem, A. (2022). An open, analysis-ready, and quality controlled resource for pediatric brain white-matter research. *Scientific Data*, 9, 616.

Orth, R. D., Hur, J., Jacome, A. M., Savage, C. L. G., **Grogans, S. E.**, Shackman, A. J., & Blanchard, J. J. (2022). Understanding the consequences of moment-by-moment fluctuations in mood and social experience for paranoid ideation in psychotic disorders. *Schizophrenia Bulletin Open*, 3(1), sgac064.

**Grogans, S. E.**, Fox, A. S., & Shackman, A. J. (2022). The amygdala and depression: A sober reconsideration. [Commentary on Tamm et al., in press]. *American Journal of Psychiatry*, 179(2), 454-457.

Hur, J.\*, Kuhn, M.\*, **Grogans, S. E.\***, Anderson, A. S., Islam, S., Kim, H. C., Tillman, R. M., Fox, A. S., Smith, J. F. †, DeYoung, K. A. †, & Shackman, A. J. † (2022). Anxiety-related fronto-cortical activity is associated with dampened stressor reactivity in the midst of daily life. *Psychological Science*. 33(6), 906-924.

Eisenberg, D. P., Kohn, P. D., Hegarty, C. E., Smith, N. D., **Grogans, S. E.**, Czarapata, J. B., Gregory, M. D., Apud, J. A., & Berman, K. F. (2022). Clinical correlation but no elevation of striatal dopamine synthesis capacity in two independent cohorts of medication-free individuals with schizophrenia. *Molecular Psychiatry*, 27(2), 1241-1247.

Lopez, G., Eisenberg, D. P., Gregory, M. D., Ianni, A., **Grogans, S. E.**, Kim, J., Masdeu, J. C., Groden, C., Sidransky, E., & Berman, K. F. (2020). Longitudinal positron emission tomography of dopamine synthesis in subjects with *GBA1* mutations. *Annals of Neurology*, 87(4), 652-657.

Pornpattananangkul, N., **Grogans, S.**, Yu, R., & Nusslock, R. (2019). Single-trial EEG Dissociates Motivation and Conflict Processes During Decision-Making Under Risk. *NeuroImage*, 188, 483-501.

Yao, Y., Wang, X., Cao, J., Graham, M. E., Vaynman, S., **Grogans, S. E.**, Cao, Y., & Ulmer, M. P. (September 2015). Stress manipulated coating for figure reshape of light weight x-ray telescope mirrors. In *Optics for EUV, X-Ray, and Gamma-Ray Astronomy VII* (Vol. 9603, p. 96031J). International Society for Optics and Photonics.

Ulmer, M. P., Wang, X., Knapp, P. M., Cao, J., Cao, Y., Karian, T., **Grogans, S.**, Graham, M. E., Vaynman, S., & Yao, Y. (September 2014). Comparisons of the deflections of magnetically smart films on alloy of NiCo and glass substrates. In *Adaptive X-Ray Optics III* (Vol. 9208, p. 920808). International Society for Optics and Photonics.

## **OTHER PUBLICATIONS**

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**Grogans, S. E.\*** & Marsh, N. P.\* (July 2023). Navigating the Advisor-Advisee Relationship. *PCSAS Newsletter*, 10<sup>th</sup> Edition.

## **CONFERENCE & SYMPOSIA POSTER PRESENTATIONS**

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**Grogans, S. E.**, Pine, D. S., & Lewis, K. M. (2024). The role of social self-efficacy in the relationship between behavioral inhibition and social anxiety in youth. Abstract submitted to the annual meeting of the **Association for Behavioral and Cognitive Therapies**, Philadelphia, PA.

Ewing, D., Didier, P. R., **Grogans, S. E.**, Anderson, A. S., Islam, S., Craig, L. E., Wedlock, J., Hur, J., DeYoung, K. A., & Shackman, A. J. (2024). Loneliness and internalizing symptoms of anxiety and depression over time. Abstract submitted to the annual meeting of the **Association for Behavioral and Cognitive Therapies**, Philadelphia, PA.

- Grogans, S. E.**, Hur, J., Barstead, M. G., Anderson, A. S., Islam, S., Kim, H. C., Kuhn, M., Tillman, R. M., Fox, A. S., Smith, J. F., DeYoung, K. A., & Shackman, A. J. (2024). The neural systems and real-world mood dynamics underlying dispositional risk for internalizing illness. Poster to be presented at the annual meeting of the ***Society of Biological Psychiatry***, Austin, TX.
- Didier, P., Cornwell, B., **Grogans, S. E.**, Anderson, A. S., Islam, S., Kim, H. C., Tillman, R. M., Hur, J., Fox, A. S., DeYoung, K. A., Smith, J. F., & Shackman, A. J. (2024). A shared threat-anticipation circuit is dynamically engaged at different moments by temporally uncertain and certain threat. Poster to be presented at the annual meeting of the ***Society of Biological Psychiatry***, Austin, TX.
- Grogans, S. E.**, Hur, J., Barstead, M. G., Anderson, A. S., Islam, S., Kim, H. C., Kuhn, M., Tillman, R. M., Fox, A. S., Smith, J. F., DeYoung, K. A., & Shackman, A. J. (2024). The neural systems and real-world mood dynamics underlying dispositional risk for internalizing illness. Poster presented at the annual meeting of the ***Wisconsin Symposium on Emotion – HealthEmotions Research Institute***, Madison, WI.
- Grogans, S. E.**, Hur, J., Barstead, M. G., Anderson, A. S., Islam, S., Kim, H. C., Kuhn, M., Tillman, R. M., Fox, A. S., Smith, J. F., DeYoung, K. A., & Shackman, A. J. (2023). Neuroticism is associated with increased reactivity to uncertain threat—but not ‘threat-related’ emotional faces—in the bed nucleus of the stria terminalis. Poster presented at the annual meeting of the ***Society of Biological Psychiatry***, San Diego, CA.
- Didier, P., Cornwell, B., **Grogans, S. E.**, Anderson, A. S., Islam, S., Kim, H. C., Tillman, R. M., Hur, J., Fox, A. S., DeYoung, K. A., Smith, J. F., & Shackman, A. J. (2023). Decomposing the neural dynamics of threat anticipation. Poster presented at the annual meeting of the ***Society of Biological Psychiatry***, San Diego, CA.
- Shi, T., **Grogans, S. E.**, Smith, J. F., & Shackman, A. J. (2023). Understanding the role of extended amygdala reactivity in intolerance of uncertainty & loneliness. Poster presented at ***PSYC Terp Research Fair***, College Park, MD.
- Grogans, S. E.**,\* Conway, C. C.\*, Anderson, A. S., Islam, S., Craig, L. E., Wedlock, J., Hur., J., DeYoung, K. A., & Shackman, A. J. (2023). Neuroticism is selectively associated with longitudinal increases in broadband internalizing symptoms, but not anhedonia or anxious arousal, in emerging adulthood. Poster to be presented at the annual meeting of the ***Anxiety & Depression Association of America***, Washington, DC.
- Biskach, M., **Grogans, S. E.**, Kim, H. C., DeYoung, K. A., & Shackman, A. J. (2022). Exploring the role of substance use on the relationships between behavioral inhibition, social anxiety, & loneliness. Poster presented at ***Undergraduate Research Day***, College Park, MD.
- Grogans, S. E.** \*, Hur, J. \*, Kuhn, M., Anderson, A. S., Islam, S., Kim, H. C., Tillman, R. M., Fox, A. S., Smith, J. F., DeYoung, K. A., & Shackman, A. J. (2022). Diminished vmPFC safety signaling is associated with pervasively elevated real-world negative affect. Poster presented to the annual meeting of the ***Society of Biological Psychiatry***, Virtual Meeting.
- Grogans, S. E.**, Hur, J., Barstead, M. G., Anderson, A. S., Islam, S., Kim, H. C., Kuhn, M., Tillman, R. M., Fox, A. S., Smith, J. F., DeYoung, K. A., & Shackman, A. J. (2021). Neuroticism/negative emotionality is associated with increased reactivity to uncertain threat in the bed nucleus of the stria terminalis. Poster presented to the annual meeting of the ***Society for Social Neuroscience***, Virtual Meeting.
- Grogans, S. E.**, Hur, J., Barstead, M. G., Anderson, A. S., Islam, S., Kim, H. C., Kuhn, M., Tillman, R. M., Fox, A. S., Smith, J. F., DeYoung, K. A., & Shackman, A. J. (2021). Neuroticism/negative emotionality is

associated with increased reactivity to uncertain threat in the bed nucleus of the stria terminalis. Poster presented at the annual meeting of the **Society for Neuroscience**, Virtual Meeting.

Kim, H. C., Smith, J. F., Islam, S., Anderson, A. S., Kaplan, C. M., DeYoung, K. A., **Grogans, S. E.**, Fox, A. S., Bradford, D., Curtin, J., Shackman, A. J. (2021). The role of central extended amygdala in acute nicotine abstinence. Poster presented at the annual meeting of the **Society for Neuroscience**, Virtual Meeting.

Anderson, A. S., DeYoung, K. A., Islam, S., **Grogans, S. E.**, Wedlock, J., Barstead, M. G., & Shackman, A. J. (2021). BIPOC Undergraduate Students Experiences with Microaggressions and Discrimination: Prevalence and Associations with Mental Illness. Poster presented at the annual meeting of the **Society for Research in Psychopathology**, Virtual Meeting.

Anderson, A. S., **Grogans, S.**, Wedlock, J., DeYoung, K. A., & Shackman, A. J. (2021). Microaggressions experienced by Black undergraduates across the United States: risk and resilience. Poster presented at the annual meeting of the **Association for Behavioral and Cognitive Therapies**, Virtual Meeting.

Newsome, P.\*, **Grogans, S. E.\***, Barstead, M. G., Wedlock, J., DeYoung, K. A., & Shackman, A. J. (2021). Dispositional negativity and intolerance of uncertainty: the real-world consequences of temperament. Poster presented at the annual meeting of the **Association for Psychological Science**, Virtual Convention.

Baez, L., **Grogans, S. E.**, Anderson, A. S., Islam, S., DeYoung, K. A.\* , Conway, C. C., Heller, A. S.\* , & Shackman, A. J.\* (2021). Using affective dynamics to predict dysphoria over 30 months: A partial least squares regression analysis. Poster presented at the annual meeting of the **Wisconsin Symposium on Emotion – HealthEmotions Research Institute**, Virtual Symposium.

**Grogans, S. E.**, Hur, J., Anderson, A. S., Islam, S. Kuhn, M., Tillman, R. M., Fox, A. S., Smith, J. F.\* , DeYoung, K. A.\* , & Shackman, A. J.\* (2021). Higher 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 – HealthEmotions Research Institute**, Virtual Symposium.

Boumaiz, Y.\*, Rogers, M.\*, **Grogans, S.**, Kim, H. C., & Shackman, A. (2020). Neuroticism predicts negative reinforcement tobacco smoking motives. Poster presented at **Undergraduate Research Day**, College Park, MD.

Wedlock, J. C., Craig, L. E., Hur, J., **Grogans, S. E.**, DeYoung, K. A., & Shackman, A. J. (2020). The mediating effect of social support on the relationship between intolerance of uncertainty and social anxiety. Poster presented at the annual meeting of the **American Psychological Association**, Washington, DC.

Eisenberg, D. P., Kohn, P. K., Hegarty, C., Smith, N. R., **Grogans, S. E.**, Apud, J., & Berman, K. F. (2019). Negative symptoms and striatal dopamine synthesis capacity in schizophrenia. Poster presented at the annual meeting of the **American College of Neuropsychopharmacology**, Orlando, FL.

Smith, N. R., Eisenberg, D. P., Gregory, M. D., Kohn, P. K., **Grogans, S. E.**, & Berman, K. F. (2019). Neuroticism polygenic association score and dopaminergic systems correlates: Investigations with [18F]-FDOPA, [11C]NNC-112, and [18F]fallypride PET. Poster presented at the annual meeting of the **American College of Neuropsychopharmacology**, Orlando, FL.

Sorcher, L. K., Nash, T. A., Kippenhan, J. S., **Grogans, S. E.**, Kuhney, F. S., Hamborg, M. R., Gregory, M. D., Eisenberg, D. P., Kohn, P. K., Mervis, C. B., & Berman, K. F. (2019). Developmental trajectories of white matter integrity in children with Williams syndrome. Poster presented at the annual meeting of the **Flux Society**, New York, NY.

- Smith, N. R., Eisenberg, D. P., Kohn, P., **Grogans, S.**, Dickinson, D., & Berman, K. F. (2019). Neuroticism personality traits are correlated with dopaminergic activity as measured by [<sup>18</sup>F]-FDOPA PET. Poster presented at the annual meeting of the *Society of Biological Psychiatry*, Chicago, IL.
- Grassy, A. K., Nash, T. A., Kippenhan, J. S., **Grogans, S. E.**, Kuhney, F. S., Sorcher, L. K., Hamborg, M. R., Kittleson, A. R., Padilla, L. E., Elliott, S. L., Eisenberg, D. P., Gregory, M. D., Kohn, P. D., Berkson, J. G., Mervis, C. B., & Berman, K. F. (2019). The NIMH longitudinal study of children with 7q11.23 CNVs: Multimodal investigation of the neural correlates of anxiety in children with Williams syndrome. Poster presented at the *NIMH-NHLBI Heart and Soul Workshop*, Bethesda, MD.
- Hamborg, M. R., Kuhney, F. S., Kippenhan, J. S., Gregory, M. D., Nash, T. A., Kohn, P. D., Eisenberg, D. P., Sorcher, L. K., **Grogans, S. E.**, Grassy, A., Kittleson, A., Mervis, C. B., & Berman, K. F. (2019). The NIMH longitudinal study of children with 7q11.23 CNVs: Developmental trajectories of hippocampal and amygdalar volumes in children with Williams syndrome. Poster presented at the *NIMH-NHLBI Heart and Soul Workshop*, Bethesda, MD.
- Kippenhan, J. S., Nash, T. A., Gregory, M. D., Kohn, P. D., Eisenberg, D. P., Czarapata, J., Wei, S., Reding, K., **Grogans, S. E.**, Kuhney, F. S., Hamborg, M. R., Elliott, S., Padilla, L., Sorcher, L. K., Grassy, A. K., Kittleson, D., Berkson, J., Mervis, C. B., & Berman, K. F. (2019). The NIMH longitudinal study of children with 7q11.23 CNVs: Multimodal developmental modeling of brain structure, function, and connectivity. Poster presented at the *NIMH-NHLBI Heart and Soul Workshop*, Bethesda, MD.
- Kittleson, A. R., Nash, T. A., Jabbi, M., Kippenhan, J. S., Gregory, M. D., **Grogans, S. E.**, Kuhney, F. S., Sorcher, L. K., Hamborg, M., Grassy, A., Elliott, S., Padilla, L., Eisenberg, D., Kohn, P. D., Czarapata, J., Berkson, J. G., Mervis, C. B., & Berman, K. F. (2019). The NIMH longitudinal study of children with 7q11.23 CNVs: Multimodal investigation of the neural correlates of social cognition in Williams syndrome and 7q11.23 duplication syndrome. Poster presented at the *NIMH-NHLBI Heart and Soul Workshop*, Bethesda, MD.
- Nash, T. A., Kippenhan, J. S., Gregory, M. D., Kohn, P. D., **Grogans, S. E.**, Kuhney, F. S., Sorcher, L. K., Hamborg, M. R., Elliott, S., Padilla, L., Grassy, A. K., Kittleson, A., Berkson, J., Eisenberg, D. P., Mervis, C. B., & Berman, K. F. (2019). The NIMH longitudinal study of children with 7q11.23 CNVs: An overview. Poster presented at the *NIMH-NHLBI Heart and Soul Workshop*, Bethesda, MD.
- Sorcher, L. K., Nash, T. A., Kippenhan, J. S., **Grogans, S. E.**, Kuhney, F. S., Hamborg, M. R., Elliott, S. L., Grassy, A. K., Kittleson, A. R., Padilla, L. E., Gregory, M. D., Eisenberg, D. P., Kohn, P. D., Czarapata, J. B., Berkson, J. G., Mervis, C. B., & Berman, K. F. (2019). The NIMH longitudinal study of children with 7q11.23 CNVs: Multimodal investigation of the neural correlates of visuospatial construction impairments. Poster presented at the *NIMH-NHLBI Heart and Soul Workshop*, Bethesda, MD.
- Grogans, S. E.**, Reding, K. M., Wei, S., Elliott, S. L., Padilla, L. E., Martinez, P. E., Robinson, E. D., Nash, T. A., Kohn, P. D., Nieman, L. K., Yanovski, J. A., Schmidt, P. J., Berman, K. F. (2018). Neurodevelopment of aversive face processing during puberty: Changes in fronto-amygdalar effective connectivity. Poster presented at the annual meeting of the *American College of Neuropsychopharmacology*, Hollywood, FL.
- Teefe, E., Gregory, M., Kippenhan, J. S., Nash, T., **Grogans, S.**, Elliott, S., Kuhney, F., Eisenberg, D., Mervis, C. B., & Berman, K. F. (2018). Differences in brain myelination patterns associated with 7q11.23 copy number variations. Poster presented at the annual meeting of the *American College of Neuropsychopharmacology*, Hollywood, FL.
- Grogans, S. E.**, Reding, K. M., Gregory, M. D., Wei, S., Barone, J. C., Boroshok, A. L., Elliott, S. L., Padilla, L. E., Martinez, P. E., Robinson, E. D., Nash, T. A., Kohn, P. D., Nieman, L. K., Yanovski, J. A., Schmidt, P.

- J., Berman, K. F. (2018). Influences of pubertal status on neurodevelopment of affective face processing. Poster presented at the annual *NIMH Scientific Training Day*, Washington, DC.
- Kippenhan, J. S., Gregory, M. D., Nash, T., Prabhakaran, R., Mervis, C. B., Eisenberg, D. P., Ravindranath, O., Currin, D., **Grogans, S.**, O'Brien, M., Kohn, P., & Berman, K. F. (2018). Connectivity impacted by copy-number variation in the Williams syndrome critical chromosomal region 7q11.23. Poster presented at the annual meeting of the *Organization for Human Brain Mapping*, Singapore.
- Currin, D. L., Nash, T. A., Jabbi, M., Eisenberg, D. P., Gregory, M. D., Roe, K., Prabhakaran, R., Carrasco, J., Ravindranath, O., **Grogans, S. E.**, O'Brien, M. M., Kuhney, F. S., Kippenhan, J. S., Kohn, P. K., Martin, A., Mervis, C. B., & Berman, K. F. (2018). Neural correlates of abstract social cognition in Williams syndrome and 7q11.23 Duplication syndrome. Poster presented at the annual meeting of the *Society of Biological Psychiatry*, New York City, NY.
- Grogans, S. E.**, Reding, K. M., Gregory, M. D., Wei, S., Barone, J. C., Boroshok, A. L., Elliott, S. L., Padilla, L. E., Martinez, P. E., Robinson, E. D., Nash, T. A., Kohn, P. D., Nieman, L. K., Yanovski, J. A., Schmidt, P. J., Berman, K. F. (2018). Influences of pubertal status on neurodevelopment of affective face processing. Poster presented at the annual meeting of the *Society of Biological Psychiatry*, New York City, NY.
- Kuhney, F. S., Kippenhan, J. S., Reding, K. M., Nash, T. A., Jabbi, M., Gregory, M. D., O'Brien, M. M., Currin, D. L., **Grogans, S. E.**, Kohn, P. D., Mervis, C. B., & Berman, K. F. (2018). Alterations in relative hippocampus and amygdala volume and developmental trajectories in Williams syndrome. Poster presented at the annual meeting of the *Society of Biological Psychiatry*, New York City, NY.
- Teefe, E., Gregory, M., Kippenhan, J. S., Nash, T., Currin, D., O'Brien, M., **Grogans, S.**, Boroshok, A., Elliott, S., Kuhney, F., Eisenberg, D., Mervis, C. B., & Berman, K. F. (2018). 7q11.23 copy number variation impacts white matter microstructure as measured by mcDESPOT. Poster presented at the annual meeting of the *Society of Biological Psychiatry*, New York City, NY.
- Currin, D., Nash, T., Jabbi, M., Eisenberg, D., Gregory, M., Roe, K., Prabhakaran, R., Carrasco, J., Ravindranath, O., **Grogans, S.**, O'Brien, M., Kippenhan, J. S., Kohn, P., Martin, A., Mervis, C. B., & Berman, K. F. (2017). Neural correlates of abstract social cognition in Williams syndrome and 7q11.23 duplication syndrome. Poster presented at the annual meeting of the *Society for Neuroscience*, Washington, DC.
- Grogans, S. E.**, Rasetti, R., Gregory, M., Kolachana, B., Hegarty, C. E., Ianni, A. M., Kohn, P., Callicott, J. H., Weinberger, D. R., Eisenberg, D. P., & Berman, K. F. (2017). Association of hippocampal D<sub>1</sub>/D<sub>2</sub> receptor availability and neural activity during implicit encoding. Poster presented at the annual meeting of the *Society for Neuroscience*, Washington, DC.
- Kippenhan, J. S., Gregory, M. D., Nash, T., Prabhakaran, R., Mervis, C. B., Eisenberg, D. P., Ravindranath, O., Currin, D., **Grogans, S.**, O'Brien, M., Kohn, P., & Berman, K. F. (2017). Copy-number variation in the Williams syndrome critical chromosomal region 7q11.23 impacts resting-state functional connectivity and associated structural connectivity measured with DTI tractography. Poster presented at the annual meeting of the *Society for Neuroscience*, Washington, DC.
- Grogans, S. E.**, Nash, T. A., Ravindranath, O., O'Brien, M. M., Currin, D., Kippenhan, J. S., Kohn, P., Eisenberg, D. P., Gregory, M. D., Mervis, C. B., & Berman, K. F. (2017). White matter microarchitecture in children with 7q11.23 duplication syndrome. Poster presented at the annual *NIH Research Festival*, Bethesda, MD.
- O'Brien, M. M., Nash, T. A., Jabbi, M., Gregory, M. D., Ravindranath, O., Currin, D. L., **Grogans, S. E.**, Kippenhan, J. S., Kohn, P. D., Eisenberg, D. P., Mervis, C. B., & Berman, K. F. (2017). Neural substrates of gustatory emotion processing in children with Williams syndrome and 7q11.23 duplication syndrome. Poster presented at the annual meeting of the *Flux Society*, Portland, OR.



**Grogans, S. E.**, Nash, T. A., Ravindranath, O., O'Brien, M. M., Currin, D., Kippenhan, J. S., Kohn, P., Eisenberg, D. P., Gregory, M. D., Mervis, C. B., & Berman, K. F. (2017). White matter microarchitecture in children with 7q11.23 duplication syndrome. Poster presented at the annual *NIMH Scientific Training Day*, Leesburg, VA.

**Grogans, S. E.**, Nash, T. A., Ravindranath, O., O'Brien, M. M., Currin, D., Kippenhan, J. S., Kohn, P., Eisenberg, D. P., Gregory, M. D., Mervis, C. B., & Berman, K. F. (2017). White matter microarchitecture in children with 7q11.23 duplication syndrome. Poster presented at the annual meeting of the *Society of Biological Psychiatry*, San Diego, CA.

Ravindranath, O., Nash, T. A., Gregory, M. D., Reding, K. M., Wei, S., Roe, K., **Grogans, S. E.**, Currin, D. L., O'Brien, M. M., Zawadzki, M. E., Barone, J. C., Boroshok, A. L., Martinez, P. E., Kohn, P. D., Kippenhan, J. S., Eisenberg, D. P., Schmidt, P. J., Mervis, C. B., & Berman, K. F. (2017). Neurogenetic correlates of face processing in children with 7q11.23 copy number variation. Poster presented at the annual meeting of the *Society of Biological Psychiatry*, San Diego, CA.

Kelley, N. J., Quinn, M. E., Glazer, J. E., Pornpattananangkul, N., **Grogans, S. E.**, Nadig, A. G., & Nusslock, R. (2016). Executive control for positive information mediates the relationship between self-reported behavioral approach sensitivity and reward related neural activation. Poster presented at the annual meeting of the *Society for Research in Psychopathology*, Baltimore, MD.

## CONFERENCE & SYMPOSIA ORAL PRESENTATIONS

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Burani, K., Dillon, D. G., **Grogans, S. E.**, Hallion, L. S., & Zacharek, S. (2024). Exploring transdiagnostic mechanisms of internalizing psychopathology. Symposium submitted to the annual meeting of the *Society for Research in Psychopathology*, Montreal, QC.

**Grogans, S. E.\***, Hur, J.\* , Kuhn, M., Anderson, A. S., Islam, S., Kim, H. C., Tillman, R. M., Fox, A. S., Smith, J. F.\* , DeYoung, K. A.\* , & Shackman, A. J.\* (April 2023). The relevance of threat & safety circuits to momentary real-world distress. Oral presentation at the annual meeting of the *Society of Biological Psychiatry*, San Diego, CA.

**Grogans, S. E.**, Hur, J., Smith, J. F., DeYoung, K. A., & Shackman, A. J. (May 2022). The neurobiology of neuroticism/negative emotionality. Flash talk at the annual meeting of the *Association for Psychological Science*, Chicago, IL.

**Grogans, S. E.** (September 2018). Introduction to Linux & shell scripting. Oral presentation at the *NIMH Clinical and Translational Neuroscience Branch*, Bethesda, MD.

**Grogans, S. E.** (December 2017). Hippocampal D<sub>1</sub>/D<sub>2</sub> receptor availability and neural activity during implicit memory encoding. Oral presentation at the "Postbac Elevator Pitch" 5-Minute Talk through the *NIH Postbaccalaureate Seminar Series*, Bethesda, MD.

## GRANT APPLICATIONS

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### National Research Service Award (Diversity F31; F31-MH132280-01)

Project Title: *Using Functional Neuroimaging and Smartphone Digital Phenotyping to Understand the Emergence of Internalizing Illness*

Role: Principal Investigator

Co-Sponsors: Alexander Shackman, PhD; Co-Sponsor: Daniel Pine, MD

Consultants: Christopher Conway, PhD; Lea Dougherty, PhD; Gregory Hancock, PhD

Total Proposed Costs: \$95,388

- Impact Score – 1<sup>st</sup> Submission (2022): 42 (36<sup>th</sup> percentile); **2<sup>nd</sup> Submission (2023): 10 (1<sup>st</sup> percentile)**

## TEACHING

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**Guest Lecturer – Psychology 210:** Personality and Temperament: Developmental Origins, Brain Bases, and Clinical Implications (**March 2023**)

Instructor: Yi Wei, PhD

**Teaching Assistant – Psychology 489A:** Advanced Special Topics in Psychology: The Nature and Biological Bases of Emotion (**August 2022-December 2022**)

Instructor: Alexander Shackman, PhD

**Honors Thesis Graduate Supervisor – Biology Honors Program (July 2021-May 2023)**

Advisee: Tesia Shi

**Teaching Assistant – Psychology 210:** Personality and Temperament: Developmental Origins, Brain Bases, and Clinical Implications (**January 2022-May 2022, January 2023-May 2023**)

Instructors: Alexander Shackman, PhD; Yi Wei, PhD

**Teaching Assistant – Psychology 437:** The Assessment and Treatment of Addictive Behaviors (**January 2022, July-August 2022, January 2023, July-August 2023, January 2024, July-August 2024**)

Instructor: CJ Seitz-Brown, PhD

**Guest Lecturer – Psychology 409:** Topics in Neuroscience Seminar (**December 2020, December 2021**)

Instructor: Amanda Chicoli, PhD

**Teaching Assistant – Psychology 100:** Introduction to Psychology (**January 2020-May 2020**)

Instructor: Dylan Selterman, PhD

**Teaching Assistant – Psychology 300:** Research Methods (**August 2019-December 2019**)

Instructor: Edward Bernat, PhD

## SKILLS

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**Programming:** R, MATLAB, Python, NI Labview, Tcsh/Bash

**Data Acquisition & Analysis:** AFNI, SPSS, SPM12, ITK-Snap, Neuroscan, ePrime, Excel, JASP, R

**Graphics:** Adobe Illustrator, Adobe Photoshop, MRICroGL, FSLview

## CLINICAL EXPERIENCE

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**Clinical Extern, NIMH Emotion & Development Branch (August 2022-present)**

Supervisors: Erin Berman, PhD; Miryam Kiderman, PsyD (2022-2023)

- ~16 hours per week, divided approximately evenly between two sections of the Emotion and Development Branch: Section on Development, Neuroscience (SDAN; PI: Daniel Pine, MD) and Neuroscience and Novel Therapeutics Unit (NNT; Melissa Brotman, PhD)
- Administering evidence-based (e.g., manualized CBT with exposures) treatment approaches for anxiety disorders in children and adolescents

- Administering Wechsler Abbreviated Scale of Intelligence (WASI) and other clinical assessment measures, including the Kiddie Schedule for Affective Disorders and Schizophrenia (KSADS) and Anxiety Disorders Interview Schedule for Children/Parents (ADIS)
- Exposure to a variety of patients with DMDD and Anxiety Disorders (Generalized Anxiety Disorder, Separation Anxiety Disorder, and Social Anxiety Disorder) in an outpatient clinical research setting
- Training and administration of phone screening
- Weekly supervision with licensed psychologists
- Regular didactic opportunities within the branch
- Mentoring research assistants applying to graduate school

**Volunteer Counselor, Online OCD Camp for Youth, International OCD Foundation (February 2023, January 2024)**

- Leading small group discussions and activities focused on Exposure & Response Prevention (ERP) for 12-14 year olds with OCD

**Clinical Interviewer, Big Emotions Across Development Laboratory (March 2022-June 2023)**  
Supervisor: Lea Dougherty, PhD

- Administering a study-specific version of the Structured Clinical Interview for DSM-5 Disorders (SCID) to research participants via telehealth
- Weekly group supervision

**Camp Counselor, Kids Out Loud Camp – previously Cool, Confident, and Courageous Group for Selective Mutism (August 2021, August 2022, July 2023)**

Supervisors: Veronica Raggi, PhD; Courtney Keeton, PhD (2023); Kelly O'Brien, PhD (2021, 2022)

- Implemented a one-week intensive behavioral program for young children with selective mutism in a naturalistic day-camp setting
- Received live supervision

**Coach, SUCCEEDS UMD ADHD Clinic (July 2021-June 2022)**

Supervisor: Andrea Chronis-Tuscano, PhD

- Provide evidence-based therapy within a cognitive-behavioral framework for college students with ADHD and common comorbidities, including anxiety and depression
- Interventions delivered include: Cognitive Behavioral Therapy (CBT), Organization Skills Training (OST), Behavioral Activation, Motivational Interviewing
- Receive weekly group and/or individual supervision and individual video tape review

**Graduate Student Psychoeducational Assessment Evaluator, UMD Clinical Psychology Training Clinic (January 2021-June 2023)**

Supervisors: Colleen Byrne, PhD; Michael Guilbault, PhD

- Conducted comprehensive psychoeducational evaluations with children, adolescents, and adults presenting with learning, emotional, and behavioral difficulties
- Conducted structured diagnostic interviews with parents and youth; administered cognitive, achievement and neuropsychological measures; scored and interpreted data; formulated case conceptualizations; wrote integrated assessment reports; provided feedback to families, which included discussing diagnoses, functional impairment, treatment recommendations and academic accommodations
- Received weekly group supervision for testing and individual supervision for report writing

**Graduate Student Therapist, UMD Clinical Psychology Training Clinic (June 2020-August 2023)**

Supervisors: Colleen Byrne, PhD; Karen Schwartz, PhD; CJ Seitz-Brown, PhD; Jessica Magidson, PhD

- Provide evidence-based therapy within a cognitive-behavioral framework for children, adolescents, and adults experiencing a range of psychological difficulties including depression, anxiety, ADHD, trauma, OCD, and emotion dysregulation
- Interventions delivered include: Cognitive Behavioral Therapy (CBT), Organization Skills Training (OST), Exposure and Response Prevention (ERP), Behavioral Activation, Motivational Interviewing, and parent training
- Receive weekly group and/or individual supervision and individual video tape review

**Specialized Clinical Contact (July 2016-July 2019):** Experience working with patients with schizophrenia and related psychotic disorders and with children and adults with Williams syndrome and 7q11.23 Duplication syndrome

**Crisis Counselor, Crisis Text Line (March 2018-March 2021)**

**Trainee, Schizophrenia Clinical Program, NIMH (September 2016-July 2019)**

Supervisor: Ann Reifman, PhD

## **SPECIALIZED RESEARCH & STATISTICAL TRAINING**

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**Introduction to Machine Learning in R** – Virtual two-day workshop, The Center for Integrated Latent Variable Research, University of Maryland, College Park (2024)

**Designing Ambulatory Assessments** – Virtual two-day workshop, Pittsburgh Summer Methodology Series (2023)

**Longitudinal Multilevel Modelling in R** – Virtual three-day workshop, Pittsburgh Summer Methodology Series (2022)

**fMRI: A Five-Day Intensive Introduction** – Virtual week-long workshop, Athinoula A. Martinos Center for Biomedical Imaging (2021)

**Applied Machine Learning in R** – Virtual week-long workshop, Pittsburgh Summer Methods Series (2021)

**Structural Equation Modelling: A First & Second Course** – Virtual week-long workshop, The Center for Integrated Latent Variable Research, University of Maryland, College Park (2020)

**AFNI Bootcamp** – Week-long neuroimaging workshops, NIH, Bethesda, MD (2016, 2019)

## **PROFESSIONAL SERVICE**

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**Social Media Liason** – *Anxiety and Depression Association of America*, Early Career & Trainee Special Interest Group (2023-2024)

**Mental Health Committee Chair** – Dean's Graduate Student Advisory Council (2023-2024)

**PCSAS Student Representative** – Psychological Clinical Science Accreditation System (2022-2024)

**Appointed Dept. Representative** – Dean's Graduate Student Advisory Council & Psychology Graduate Committee (2022-2024)

**Editor** – Application Statement Feedback Program (for Psychology PhD applicants; 2022, 2023)

**Clinical Program Committee Member** – Clinical Science Committee (2021-2022); Diversity & Inclusion Committee (2022-2024)

**Ad Hoc Reviewer** – *Communications Psychology* (2024); *Nature Communications* (2023); *Advances in Methods and Practices in Psychological Science* (2022); *Neuroscience and Biobehavioral Reviews* (2022); *Journal of Consulting and Clinical Psychology* (2022); *Journal of Neuroscience* (2021)

**Student Preparer** – UMD Clinical Psychology Program's Self-Study for *American Psychological Association* Re-Accreditation (2021)

**Alumni Interviewer** – Northwestern University Alumni Admission Council (2018-2020)

## **PROFESSIONAL AFFILIATIONS**

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**Member** – *Society for Research in Psychopathology* (April 2024-present), *Anxiety and Depression Association of America* (June 2023-present), Early Career & Trainee Special Interest Group; *Association for Psychological Science* (April 2022-April 2023); *Society for Quantitative Methods* (February 2022-present); *Phi Kappa Phi Honors Society* (February 2022-February 2023); *National Center for Faculty Development & Diversity* (December 2019-present); *UMD Graduate School Society of Fellows* (August 2019-present); *Society for Neuroscience* (May 2017-May 2019)

**Mentor** – Next Gen Psych Scholars Program (July 2021-present); Quant Family Collective (July 2023-present)