Ashley L. Humphries

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EDUCATION

The University of Texas at Austin, Austin, TX 08/2019 - 05/2023

BSA Neuroscience, Evidence and Inquiry Certificate

GPA: 3.97, Polymathic Scholars Honors Program

Honors Thesis: *Social Rejection and its Impact on Memory Processes*

PUBLICATIONS

Peer Reviewed Published Manuscripts

1. Kupka, G., **Humphries, A.**, & Neta, M. (2024). Relating objective measures of physical activity to emotion regulation. *Affective Science.*

Preprints

1. Shearer, H., Rosenblatt, M., et al. [One of 29 co-authors]. (2024, November 22). BrainEffeX: A Web App for Exploring fMRI Effect Sizes. https://doi.org/10.31219/osf.io/kryn4

Manuscripts in Preparation

1. Kupka, G., **Humphries, A.**, Harp, N. R., Nelson, T. D., & Neta, M. (under review). Objective measures of physical activity as a compensatory mechanism of emotion regulation.
2. **+Humphries, A.**, +Peckinpaugh, I., Kupka, G., Blair, R. J. R.,Tottenham, N., & Neta, M. (in preparation). Intergenerational transmission of valence bias is moderated by attachment. (+ equal contribution)

PRESENTATIONS

- **Humphries, A.** "Do people neurally represent stimuli according to their valence bias? Using RSA Searchlight" *Neurohackademy,* Seattle, WA, August 2024. (talk).
- **Humphries, A.,** Shearer, H., Fischbach, A., Földes, T. (equal contributions) "Nipoppy-effex-viz" *Neurohackademy,* Seattle, WA, August 2024. (talk).
- **Humphries. A.,** Kupka, G., Neta, M., "Intergenerational Transmission of Valence Bias" *Society for Affective Science 3-Minute Pitch Competition,* Online, June 2024. (talk)
- **Humphries, A.,** Neta, M. "Investigating the Dynamic between Valence Bias and Social Networks" *Society for Affective Science,* New Orleans, LA, March 2024. (poster).
- **Humphries, A.** "Investigating the Dynamic between Valence Bias and Social Networks" *The Social Connection Lab University of Southern California*, Online, April 2024. (talk).
- **Humphries, A.** "Social Rejection and its Impact on Memory Processes" *College of Natural Science Thesis Symposium,* Austin, TX, April 2023. (talk).
- **Humphries, A.** "Social Rejection and its Impact on Memory Processes" *Longhorn Research Poster Session,* Austin, TX, April 2023. (poster).
- **Humphries, A**. "Sex-chromosome linked genes" *Advanced Introduction to Genetics*, Austin, TX, October 2022. (guest lecture).
- **Humphries, A.** Gupta, N. "Past is Prologue: Developmental Differences in the Construction of Future-Oriented Stories" *UT Synapse and SAGE Symposium*, Austin, TX, April 2022. (talk).

GRANTS, AWARDS, ACADEMIC HONORS

Outstanding Undergraduate Course Assistant Award 05/2023

- Awarded after being nominated out of 350 UGCAs in the Biology Department

High Honors College of Natural Sciences Graduate 04/2023

- Awarded to graduating students who are in the top 10% of their class

Diamond Undergraduate Course Assistant Award 12/2020

Second Year Excellence Award for Academic Achievement 04/2020

- Granted to sophomores who are rising stars in the College of Natural Science for their achievement in research, service, equity and inclusion, leadership, and diversity.

Polymathic Scholars Honors Program 08/2019 – 05/2023

- A competitive honors program that culminates in an interdisciplinary capstone thesis and Evidence and Inquiry Certificate

UT Austin College of Natural Sciences Scholarship 08/2019

RESEARCH EXPERIENCE

Research Specialist, Cognitive and Affective Neuroscience Lab 07/2023 – Present
The University of Nebraska-Lincoln
Advisor: Dr. Maital Neta

Cognitive and affective neuroscience lab investigating ***individual differences in emotion processing and regulation*** using behavioral, neuroimaging, and longitudinal methods.

- Designed, conducted, and analyzed a behavioral longitudinal study to investigate the dynamic between valence bias and social networks in college-aged participants**.**
- Analyzed an MVPA-oriented fMRI dataset using representational similarity analysis (RSA) searchlight to investigate if individual differences in valence bias can be explained by the similarity of neural representations of ambiguously and clearly valenced stimuli.
- Analyzed resting state fMRI data to determine if valence bias could be predicted by the similarity of functional connectivity in parent-child dyads.
- Coded scripts to wrangle seven days of continuous Actigraph physical activity and sleep data of over 300 participants.
- Collected and recruited fMRI and behavioral data from child and adult participants (ages 6-96 years), supporting a study investigating how valence bias develops over a lifespan.
- Coded scoring and data wrangling scripts in R and Python to manage longitudinal behavioral data and yearly follow-up surveys for over 300 participants.
- Presented original work and led journal club discussions in multiple lab meetings.
- Trained and mentored undergraduate research assistants and high school students in data cleaning and collection.

Research Assistant, The Preston Lab 05/2021 – 05/2023
The University of Texas at Austin
Advisors: Dr. Alison Preston, Dr. Christine Coughlin

Cognitive neuroscience lab investigating ***memory development and integration*** using behavioral and neuroimaging methods.

- Designed, programmed, conducted, and analyzed a behavioral study to investigate the effects of social rejection on memory processes using the Paired Associative Inference Paradigm, resulting in a senior honors thesis.
- Collected fMRI and behavioral data from pediatric and adult participants (ages 5-45 years), resulting in a study investigating how children develop the ability to integrate memories and segment events.
- Developed an alternative metric to measure children's reading comprehension, resulting in

ecologically viable intelligence assessments.
- Created and managed behavioral data collection for multiple studies using REDcap, and transcribed hundreds of subjects' verbal responses.

Research Assistant, Self-Regulation Lab 01/2022 – 05/2023
The University of Texas at Austin
Advisors: Dr. Jennifer Beer, Isabella McConley, Sydney Okland

Social psychology lab investigating *social rejection, self-regulation, and social cognition* using behavioral and neuroimaging methods.

- Collected task-based and resting-state fMRI, and real Facebook data for a study aiming to collect over 300 participants to study how differences in emotional processing correlate to social relationships.
- Collected behavioral data from college-aged participants, resulting in a study investigating social rejection from a typically understudied area: the rejector perspective.
- Discussed experimental manipulations, measures, and analyses of social rejection psychology with peers.

Research Assistant, Lewis-Peacock Lab 06/2022 – 05/2023
The University of Texas at Austin
Advisors: Dr. Jarrod Lewis-Peacock, Ziyao Zhang

Neuroscience and psychology lab investigating *working memory, episodic memory, and cognitive control* using behavioral, neuroimaging, and machine learning methods.

- Collected EEG data and behavioral data for studies investigating visual working memory, attention, and distraction.
- Collected fMRI data for a study that uses neurofeedback to manipulate neural competition in working memory in an attempt to control forgetting.
- Discussed manipulations, measures, and data analysis methods with graduate students.

TEACHING EXPERIENCE

Behavioral Science to Reduce Inequality 01/2023 – 05/2023
Undergraduate Teaching Assistant, *The University of Texas at Austin*
Advisors: Dr. David Yeager, Dr. Nneka Ibekwe-Okafor

- Presented lessons and led discussions for psychology students to develop as behavioral scientists.
- Graded final group projects consisting of verbal presentations and essays of behavioral interventions for various societal issues.
- Managed course logistics and mindfully corresponded with students to meet their needs.

Undergraduate Teaching Assistant Training Course 08/2021 – 05/2023
Undergraduate Teaching Assistant, *The University of Texas at Austin*
Advisors: Dr. Kristin Patterson, Dr. Jennifer Moon

- Developed a course to train 60+ undergraduate students to be effective, inclusive, and ethical undergraduate teaching assistants using well-studied and practiced pedagogical tools and ethics modules.
- Facilitated thoughtful discussions with students, resulting in conversations about teaching experiences, minority inclusivity, and professional development to model clear and constructive communication.
- Created a more efficient way of taking student attendance and graded course assignments.

Advanced Introduction to Genetics 08/2021 - 12/2022
Undergraduate Teaching Assistant, *The University of Texas at Austin*
Advisors: Dr. Jennifer Moon

- Led discussion sections to over 30 students by developing and presenting weekly lesson plans, resulting in improved student outcomes and an encouraging, collaborative environment.
- Intentionally used wise interventions, interventions rooted in psychological theory to change behavior, in my discussion sections to motivate and encourage students.
- Taught lecture material and managed a classroom of over 70 students.

Originality in Arts and Sciences Course 08/2020 - 12/2021
Undergraduate Teaching Assistant, *The University of Texas at Austin*
Advisors: Dr. Arturo De Lozanne

- Mentored eleven freshman neuroscience students, providing them with academic support, campus resources, and career advice resulting in two scientific grant writing projects and eleven individual humanities projects.
- Fostered a supportive and collaborative environment resulting in a comfortable place to discuss coping mechanisms and healthy habits for college students.

WORKSHOPS AND COURSES

Neurohackademy 07/2024-08/2024
Two week summer school of data science and neuroscience lectures and a hackathon.

- Emphasizes open science practices and analyzing neuroscience data.
- Contributed to the user interface of BrainEffex, a Shiny App in R to estimate effect sizes for neuroimaging studies using datasets with n>500.

LEADERSHIP and VOLUNTEER EXPERIENCE

College of Natural Science Honors Diversity and Inclusion Group 10/2019- 05/2023
Council Member, Outreach volunteer

- Advocated for underrepresented minority students in the honors program, resulting in actionable plans such as new community guidelines, a new training course for undergraduate teaching assistants, and increased transparency about DEI efforts from faculty.
- Contacted 30+ underrepresented minorities as a part of an initiative to increase their recruitment into honors, resulting in the highest number of underrepresented minorities committing to UT in the incoming freshman class.
- Presented for several recruiting events to encourage incoming freshmen from underrepresented backgrounds to apply to honors.

Senate of College Councils, The University of Texas at Austin 10/2020 - 05/2022
Faculty Affairs Committee Co-chair, General Member

- Engaged the university's undergraduate student body by organizing and hosting three faculty panels and mixers, resulting in over 200 overall attendees and new professional relationships between students and faculty.
- Planned and distributed distinguished teaching awards, culminating in university-wide recognition and a reception hosted by the university provost.
- Coordinated, budgeted, and distributed 150+ practical and environmentally friendly COVID-19 Care Packages to the student body to encourage healthy habits and provide necessary resources like hand sanitizer, masks, and lotion.

SKILLS

Language: Written and spoken fluency in English, proficiency in Spanish.

Technical: Python and R (data analysis, Shiny Apps), MATLAB (with PsychoToolbox), REDCap, and Qualtrics. EEG and fMRI data collection techniques. Univariate and multivariate fMRI data analysis techniques.

Relevant Coursework: Neural Systems I, Neural Systems II, Neural Systems III: Quantitative Methods, Programming and Data Analysis for Modern Neuroscience, Emotion, Biostatistics