

Jennifer Cunneen

Email: jkunneen@umd.edu

Education

2020-2024
(Expected) Binghamton University
B.S. Integrative Neuroscience

- GPA: 3.6

Honors & Awards

Summer 2023 Summer Scholars & Artists Program

- Granted \$3,500 to fund undergraduate student's personal research projects over the summer

Fall 2022- Present Nu Rho Psi

- International Honors Society in Neuroscience, Binghamton University chapter

2020-2023 Harpur College Dean's List

- Fall 2020, Spring 2021, Fall 2022, Fall 2023

Fall 2021 Harpur's Ferry's EMT Scholarship

- Semester Scholarship from Binghamton University's Harpur College

Publications and Presentations

Cunneen, J. & Gibb, B.E. (2024). *The impact of brooding rumination on stress generation in children*. Manuscript in preparation. Binghamton University

Gibb, B.E., Beauvilaine, C.J., Cole, N.D., Buseman, S.I., Gan, A.K.X., Shankar, P., Israel, E.S., Gair, K.A., Carfagno, C., Varriano, F., **Cunneen, J.**, Larocchia, M., Cahill, C., & Skaliotis, S. (2024, April). *Major depression in mothers and attentional biases during mother-child interactions: Evidence from mobile eye tracking*. In B.E. Gibb (Chair) Intergenerational transmission of depression: From mechanisms to targets for intervention. Symposium to be presented at the annual meeting of the Anxiety and Depression Association of America, Boston, MA.

Cunneen, J. & Gibb, B.E. (2024, April). *The impact of brooding rumination on stress generation in youth*. Poster to be presented at annual Research Days Poster conference at Binghamton University's campus, Binghamton, NY.

Cunneen, J. & Gibb, B.E. (2023, September). *The impact of brooding rumination on stress generation in youth*. Poster presented at Summer Scholars and Artists conference at Binghamton University's campus, Binghamton, NY.

Cunneen, J., Lorber, E., Hoffman, E., Visich, P., Place, R., McGuire, R. & Jaussi, K. (2021, January, 2021). *The relationship between screen time and sleep quality*. Poster presented at annual Research Days Poster conference at Binghamton University's campus, Binghamton, NY.

Research Experience

August 2023-

BNS Lab: CURE Study

December 2023

Behavioral Neuroscience Lab Class

Principal Investigator: David Jentsch Ph.D.

- Goal was to assess motivational based sex differences in mice in relation to dopaminergic pathways by analyzing operant behaviors with and without the presence of a dopamine antagonist
- Conducted operant testing in mice including autoshaping, fixed ratio testing and progressive ratio testing
- Assisted in collecting observational behavioral data and timing of behaviors from mice during operant testing

June 2023-

Summer Scholars and Artist Program, Binghamton University

August 2023

Principal Investigator: Myself, Mentor: Brandon E. Gibb, Ph.D.

Program Director: Stephen Ortiz Ph.D.

Project Title: The impact of brooding rumination on stress generation in children

- Granted \$3,500 to fund an independent specialized research project under the mentorship of Binghamton University staff through the Undergraduate Research Center
- Worked as a full time research assistant in the Binghamton Mood Disorder Institute at Binghamton University over an 8 week period over the summer assisting in the labs current projects while conducting my own research study
- Created a research poster to be presented at two local community conferences and a manuscript is in preparation for publication surrounding the research topic

- Analyzed data using Statistical Package for the Social Sciences (SPSS)

August 2022-
Present

Binghamton Mood Disorder Institute, Binghamton University (SUNY)
Undergraduate Research Assistant

Principal Investigator: Brandon E. Gibb, Ph.D.

Project Title: Attentional Biases for Affective Cues as a Mechanism of Risk in Children of Depressed Mothers (MIMIC-3)

- Served as a research assistant for an NIMH-funded multi-wave longitudinal study examining risk of the intergenerational transmission of depression in mothers and their 7-15 year old children
- Collected electroencephalogram (EEG) data for steady-state visual evoked potentials (SSVEPs) and event related potentials (ERPs) using a Brain Vision actiCHamp Plus 32 system
- Assessed attentional biases using screen-based (Tobii Pro Fusion) and mobile (Tobii Pro Glasses 3) eye trackers
- Processed Tobii Pro Glasses 3 gaze data using Tobii Pro Lab
- Processed ECG data using the MindWare HRV program
- Participated in weekly meetings to code objective levels of contextual threat for episodic stress from the UCLA Life Stress Interviews and levels of Expressed Emotion-Criticism and Overinvolvement from the Five-Minute Speech Sample (FMSS)
- Observed and assisted in assessments of lifetime psychiatric diagnoses in adults, adolescents, and children using semi-structured diagnostic interviews (SCID-5, K-SADS, MINI)
- Trained new undergraduate research assistants in lab procedures for current MIMIC, BEAR and AIMS studies and in conducting assessments with EEG, ECG and other psychophysiological data

August 2022-
Present

Project Title: Attentional Biases for Affective Cues in Infants of Depressed Mothers (BEAR)

Principal Investigator: Brandon E. Gibb, Ph.D.

- Assisted with an NIMH-funded study examining early markers of risk in 6-12 month old infants of mothers with and without major depression
- Assessed attentional biases using a Tobii Pro Fusion eye tracker
- Collected psychophysiological data (ECG, EDA, and fEMG) during mother-infant interactions using MindWare Mobile Units

July 2023-
Present

Project Title: Babies and Mothers Beginning Interactions (BAMBI)

Principal Investigator: Claire E. Foster, M.S.

- Participated in weekly meetings to code maternal behaviors during parent-child interactions
- Used an observational behavioral rating scale to index both adaptive and maladaptive parenting styles during a naturalistic free play paradigm for mothers and their 6-12 month old infants

August 2023-
Present

Project Title: Adults Influenced by Maltreatment and Stress (AIMS)

Principal Investigator: Nia Cole, B.S.

- Assisted in a study investigating stress responses in young adults who have experienced childhood maltreatment
- Participated in the administration of the Trier Social Stress Test to create a stressful environment that incorporates social evaluation and unpredictability

August 2020-
May 2021

Dickinson Research Team

Undergraduate Research Group

Faculty Mentor: Kimberely Jaussi Ph.D.

Role: Primary Investigator

Project Title: The Relationship Between Screen Time and Sleep Quality

- Conducted an independent research project and created a poster as primary author from the team's database surrounding health factors
- Attended biweekly meetings to discuss research techniques, statistical analysis and work on individual projects
- Ran statistical analysis on sleep qualitative factors in children using Statistical Package for the Social Sciences (SPSS)

Teaching Experience

Fall 2021-
Spring 2022

Undergraduate Teaching Assistant, Binghamton University (SUNY)

General Chemistry I & II (Chem 104 and Chem 105)

Instructor: Steven Murphy, Ph.D. & Benjamin Turnpenny Ph.D.

- Facilitated class discussions and answered questions for about 800 students and group work for three different sections of the course
- Facilitated testing session and group quiz
- Attended weekly meetings to discuss coursework and come up with practice problems for students
- Attended lecture class at least three times a week or facilitated testing sessions at least once a week

Campus Involvement

- Spring 2021-
Present
- Planned Parenthood Generation**
Binghamton University Chapter
- Fundraised and advocated for women's health and rights
 - Prompted discussion of topics related to women's health and right
 - Organized and hosted the annual Women's March at Binghamton University's campus
- Spring 2021
- Binghamton Symphony Orchestra**, Binghamton University (SUNY)
Assistant Principal Violin
- Played the violin for over 10 years in orchestral settings
 - Served as 2nd chair and assistant leader of the violin section in a university level orchestra and performed numerous times around Binghamton University's campus
 - Assisted in leading group sectional rehearsal practices
- October 2020
- Co-Organizer of 1st Binghamton's Women's March**
Location: Binghamton University (SUNY), Vestal Campus
- Organized the 1st women's march at Binghamton University as an official affiliation with Women March's organization
 - Grassroot rally started in our dorm room
 - Organized official speakers and professionals on topics of feminism and women's health
 - Led the march through Binghamton's campus

Community Involvement & Volunteer Experience

- September 2014-
Present
- Plainedge Pride Volunteer**
Location: Massapequa, NY
- Worked with children ages 6 and older with Autism Spectrum Disorder and Down's Syndrome to learn to play baseball
 - Helped to redirect behaviors and teach coping mechanisms
 - Provided social support
- September 2017-
May 2020
- Vice President of Best Buddies Chapter**
Member and Board Member of Plainedge Best Buddies Chapter
- Organization that works with neurodivergent children in a school setting with the goal of encouraging stimulating social interactions

between neurotypical and neurodivergent kids and strengthen their community

- Organized ideal pairing friendship matches to provide better social support
- Attended weekly meetings to organize, plan events and come up with fundraising ideas
- Held discussions within the community about how neurodivergent children are treated in the community and academic environment
- Advocated for the kids in the program within the school and ensuring their academic accommodations were being met

References

Brandon E. Gibb Ph.D., Department of Psychology at Binghamton University

Email: bgibb@binghamton.edu Phone: 607-777-2511

Christopher Bishop Ph.D., Director of Undergraduate Integrative Neuroscience Program at Binghamton University

Email: cbishop@binghamton.edu Phone: 607-777-3410

Stephen Ortiz Ph.D., Department of History at Binghamton University

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