Curriculum Vitae

NATALIE LIPARI

Barrow Neurological Institute (willing to relocate)
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Educational and Career Objectives

My primary objective is to clearly and effectively communicate the basic and applied significance of neuroscience with the medical community to educate them on cutting-edge technologies and cutting-edge treatments in a way that enhances clinical understanding and improves the quality of life for millions of patients worldwide. To support this goal, I am excited to develop and foster critical professional working relationships and bridge the gap between clinicians the basic science. Applying the indispensable critical thinking and communication skills, interpreting data sets, designing and executing sound experiments with the goal of propelling the burgeoning medical field forward. I am particularly excited to strengthen my clinical skillset, particularly with gaining hands-on experience with neuroimaging techniques and clinical trial involvement. I believe that developing these competencies will allow me to better interpret and translate scientific insights into practical applications for healthcare providers and patients alike.

EDUCATION

Degree	Dates	Institution	Area	GPA
Ph.D.	August 2025	Binghamton University	Behavioral Neuroscience	N/A
M.S.	2022	Binghamton University	Psychology	3.77
B.S	2020	SUNY Cortland	Major: Psychology Minor: Biology	Major: 4.0 Overall: 3.77

TEACHING EXPERIENCE

Dates	Academic Rank	Areas Taught	Institution
Fall 2019-Spring 2020	Teaching Assistant	Psychology Statistics Applied Research Methods Behavioral Neuroscience	SUNY Cortland

Fall 2022-Fall 2024	Adjunct Professor	General Psychology	Broome Community College
Winter 2022	Adjunct Professor	Developmental Psychology	Binghamton University
Summer 2023	Adjunct Professor	General Psychology	Binghamton University
Winter 2024/2025	Adjunct Professor	Neuroplasticity & Neurodegeneration (self-designed seminar)	Binghamton University

HONORS AND AWARDS

- **Fall 2016**- Dollars for Scholars Scholarship
- **Fall 2017**- National Honor Society of Success and Leadership
- **Spring 2018-** President's List
- **Summer 2018**- SUNY Undergraduate Research Fellowship
- **Summer 2018**- David F. Berger Summer Undergraduate Research Fellowship
- **Fall 2018**- President's List
- **Spring 2019**- Junior Psychology Award
- **Spring 2019**- President's Recognition for Engaged Learning and Leadership Designation in Undergraduate Research
- **Fall 2019- Spring 2020-** Undergraduate Research Assistant Program Award

  Spring 2019- President's List
- **Spring 2019**- Excellence in Psychology Research Award
- **Summer 2019-** Summer Undergraduate Research Fellowship- University of Alabama at Birmingham
- **Summer 2019-** University of Alabama Birmingham Summer Undergraduate Research Presentation Award
- **Fall 2019-** President's List
- **Spring 2020-** President's List

- **Fall 2021**- SUNY Chancellor's Excellence Award

- **Fall 2023**- Center for Developmental and Behavioral Neuroscience Graduate Research Assistantship

- **Spring 2024**- Graduate Student Excellence in Teaching Award

RESEARCH EXPERIENCE

Neurology & Neuroimaging Marketing Coordinator **August 2026- Present**
Barrow Neurological Institute

- Write, edit, and proofread brochures, web pages, and digital announcements highlighting advanced neurology and neuroimaging research.
- Partner with clinical leaders, researchers, and administrative teams to facilitate active messaging of medically accurate and brand-compliant information to provide public engagement and positive publicity for Barrow.

Reviewer **August 2026 – Present**
Journal of Magnetic Resonance Imaging

- Evaluated 1+ original research manuscripts focused on advanced MRI methods to thoroughly evaluate the scientific merit, novelty and overall contribution to the scientific community.
- Assess study methodology, statistical soundness, and clinical relevance to provide actionable feedback to editors and authors

Research Postdoctoral Fellow **September 2025- Present**
PI: Dr. Ashley Stokes

- Submitted an original research proposal, developed IRB protocol documents, HIPPA consent forms and MRI sequences, formed a multidisciplinary research team, recruited participants, completed pre-scan clinical assessments and MRI visits.
- Involved in the development and analysis of advanced neuroimaging methods for Parkinson's Disease (PD) and Alzheimer's Disease (AD) using perfusion and diffusion imaging methods.
- Currently working on a study comparing network changes in functional connectivity using rs-fMRI and diffusion data collected in PD patients on and off treatment, as well as healthy controls.
- Research Goals: Establish fMRI biomarkers in multiple neurodegenerative conditions and test the hypothesis that functional connectivity differences are present in patients compared to controls

Behavioral Neuroscience Lab **Summer 2020-August 2025**

- PI: Dr. Christopher Bishop
- Dissertation project focused on Investigating Anxiety-like Behavior and Basolateral Amygdala Dysfunction in a Novel Bilateral Rodent Model of Parkinsonian Alpha-Synuclein Pathology using techniques such as ex vivo electrophysiology, immunohistochemistry, and various anxiety behavioral assays.

- Completed Master's Thesis Project: Characterizing the relationship between L-DOPA-induced-dyskinesia and psychosis-like behaviors in a bilateral rat model of Parkinson's Disease in addition to achieving ABD status in the of Spring 2023.
- Research Interests: To investigate a combination of gene therapy, as well as pharmacological and neurochemical techniques, to better understand the role of various neurocircuits and neurotransmitters responsible for Parkinson's Disease
- Responsibilities: conduct sound experiments, data collection and analyzing, writing manuscripts, and present findings at conferences to facilitate professional development.
- Skills: Normal and volatile rat handling, towel wrapping, subcutaneous & intraperitoneal injections, 6-OHDA unilateral, bilateral and AAV stereotaxic surgeries, post-operative care and monitoring, in vivo microdialysis, ex vivo electrophysiology, prepulse inhibition, abnormal involuntary movements test (AIMs), forepaw adjusting steps test (FAS), rotarod, a battery of anxiety assays, conditioned place preference, controlled substance preparation and administration, rat euthanasia and brain extraction, perfusion, post-mortem brain fixation, microtome and cryostat cutting, several histology staining methods including but not limited to immunohistochemistry, immunofluorescent, antigen retrieval, polymerase chain reaction, high performance liquid chromatography (HPLC), large volume solution preparation

Professional Development AI Program Officer **Spring 2025**

- Assisted a professional development specialist in an exclusive program to test and critically evaluate new artificial intelligence software on popular and novel job search engines.
- Attended several hours of meetings monthly to ensure sufficient feedback and communication between all participants.
- Dedicated several hours each week to investigate designated search engines using artificial intelligence to ease the transition from graduate school into the workforce for thousands of students at Binghamton University.
- Responsible for keeping detailed notes and diligent information about each platform and gave multiple presentations incorporating my feedback on each to assist the program officers to make informed decisions about graduate resources moving forward.

Behavioral Neuroscience Lab **Spring 2017-Spring 2020**

- PI: Drs. Joshua A. Peck and John Lombardo
- Lab Manager
- Research Interests: Environmental enrichment on addictive behavior (primarily ethanol) and adolescent and prenatal exposure using an operant conditioning approach.

- Investigated the effects of environmental enrichment and how it mediates ethanol consumption in female adolescent rats
- Investigated the effects of an enriched environment on substance use when prenatal exposure to ethanol occurs
- Received several travel grants to present my work at multiple local, regional, and SUNY-wide conferences
- Responsibilities: develop testable hypotheses, conduct experiments, data collection, writing manuscripts, and present findings at conferences

Movement Disorders Summer Fellowship **Summer 2019**

- Shadowed Dr. Harrison Walker seeing patients in his movement disorders clinic, his research projects as well as in the operating room during his deep brain stimulation surgeries.
- Investigated the relationship between white matter tract changes in post-traumatic stress disorder patients in Dr. David Knight's behavioral neuroscience laboratory.
- Attended weekly professional development meetings with the summer fellowship program and had a multitude of presentation opportunities including a national and local conference while receiving the best presenter award.

Sexual Health Observational Study **Fall 2018-Fall 2020**

- PI: Dr. Kaitlin Flannery, co- PI: Dr. Katherine Bonafide
- Creating and identifying measures for a survey study
- Formulating hypothesis and doing literature searches
- Leading research visits with participants in an observational study
- Transcribing and coding audio recordings and videos

Cognition and Memory in Infants **Fall 2018-Spring 2019**

- PI: Dr. Kimberly Jackson
- Research Interests: Imitation in Infants
- Responsibilities: collect and analyze academic journals in subject area

CLINICAL EXPERIENCE

Crown Park Social Work Intern **Spring 2019-Spring 2020**

- Responsible for weekly visits with patients and making sure their needs are met
- Conducting and interpreting mood and cognitive assessments
- Attend pharmacological and behavioral management meetings

FUNDING SOURCES

CURRENT GRANTS:

PI: Bishop, C. Michael J. Fox Foundation "Investigating mechanisms of human alpha-synuclein-induced anxiety in a novel rat model of Parkinson's Disease". The central aim of this grant is to examine the effects of burgeoning alpha-synuclein accumulation on anxiety and its underlying neurocircuitry in a novel animal model of Parkinson's disease. This proposed set of experiments was formulated and written by graduate student, Natalie Lipari who will also be carrying out all experiments delineated in this proposal.

PUBLICATIONS

Venkatesh, S., Kinzonzi, N., Galfano, A., Shah, A., Franks, J., Holden, H., McManus, G., Lipari, N., Valle, E., Budrow, C., Bishop, C. (2025). Optimizing L-DOPA Treatment through Treadmill Controlled Exercise in a Hemi-parkinsonian Rat Model. *Experimental Neurology, Accepted.*

McManus, G., Galfano, A., Budrow, C., Deak, M., **Lipari, N.,** Manfredsson, F. P., Tseng, K., Bishop, C. (2024). Effects of Genetic Knockdown of the Serotonin Transporter on Established L-DOPA-Induced Dyskinesia and Gene expression in hemiparkinsonian rats. *Neuropharmacology, 110227.* https://doi.org/10.1016/j.neuropharm.2024.110227.

Lipari, N., Galfano, A., Venkatesh, S., Grezenko H., Sandoval, I. M., Manfredsson, F. P., Bishop, C. (2024). The Effects of Chemogenetic Targeting of Serotonin-Projecting Pathways on L-DOPA-Induced Dyskinesia and Psychosis in a Bilateral Rat Model of Parkinson's Disease. *Frontiers Circuits Plasticity in Neurodegenerative Disorders: Targeting Mood Disorders, 18.* https://doi.org/10.3389/fncir.2024.1463941.

Holden, H., Venkatesh, S., Budrow, C., Nezaria, S., Coyle, M., Centner, A., **Lipari, N**., McManus, G., Bishop, C. (2024). The Effects of L-DOPA on Gait Abnormalities in the Unilateral 6-OHDA Rat Model of Parkinson's Disease**.** *Physiology & Behavior*, 281, 114563. https://pubmed.ncbi.nlm.nih.gov/38723388/.

Budrow, C., Elder, K., Coyle, M., Centner, A., **Lipari, N**., Cohen, S., ... & Bishop, C. (2023). Broad Serotonergic Actions of Vortioxetine as a Promising Avenue for the Treatment of L-DOPA-Induced Dyskinesia. *Cells*, *12*(6), 837. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10047495/.

Lipari, N., Centner, A., Glinski, J., Cohen, S., Manfredsson, F., Bishop, C. (2022). Characterizing the relationship between L-DOPA-induced-dyskinesia and psychosis-like

behaviors in a bilateral rat model of Parkinson's Disease. *Neurobiol of Disease,* https://pubmed.ncbi.nlm.nih.gov/36526089/.

Smith, S., Sergio, J., Coyle, M., Elder, K., Centner, A., Cohen, S., Terry, M., **Lipari, N.,** Glinski, J., Wheelis, E., Budrow, C. Bishop, C. (2022). The effects of Vilazodone, YL-0919 and Vortioxetine in hemiparkinsonian rats, *Psychopharmacology*, https://pubmed.ncbi.nlm.nih.gov/35275226/.

Cohen, S., Terry, M., Coyle, M., Wheelis, E., Centner, A., Smith, S., Glinski, J., **Lipari, N.,** Budrow, C., Manfredsson, F., Bishop, C. (2022). The multimodal serotonin compounds Vilazodone alone, but not combined with glutamate antagonist Amantadine, reduced L-DOPA-induced dyskinesia in hemiparkinsonian rats. (2022). *Pharmacology, Biochemistry and Behavior,* https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10047495/.

Lipari, N., Baron, M., Peck, J. (2019). Exposure and Loss of Environmental Enrichment Mediates Ethanol Consumption in Female Adolescent Rats. *American Journal for Undergraduate Research*. https://ajuronline.org/uploads/Volume_16_3/AJUR_Vol_16_Issue_3_December_2019_p79.pdf.

Manuscripts in Preparation

Lipari, N., Wheelis, E., et al. (2025). Investigating the serotonin 5-HT_{2A} receptor's role in the development of psychosis-like behavior in a bilateral parkinsonian model with and without chronic L-DOPA administration.

Lipari, N., et al., (2025). Investigating an emerging anxiety-like phenotype in a novel αlpha-synuclein rat model of Parkinson's Disease. *Neurobiology of Disease.*

PRESENTATIONS AND INVITED LECTURES

Symposia

Name: Cortland Science Symposium
Date: 10/20/18
Location of Talk: SUNY Cortland- Cortland Science Symposium
Title: The Effects of Environmental Enrichment Mediates Ethanol Consumption in Female Adolescent Rats

Name: Cortland Science Symposium
Date: 10/20/19
Location of Talk: SUNY Cortland
Title: The Effects of Environmental Enrichment on Prenatal Alcohol Exposed Adolescent Female Rats.

Name: SUNY Cortland's Transformations Undergraduate Research Conference

Date: 4/26/19
Location of Talk: SUNY Cortland
Title: The Effects of Prenatal Exposure to Environmental Enrichment Mediates Consumption in Female Adolescent Rats

Name: Behavioral Neuroscience Winter Symposium
Date: 2/8/21
Location of Talk: Binghamton University (on zoom)
Title: The effect of L-DOPA on prepulse inhibition in the hemi-parkinsonian rat

Name: Research Days Undergraduate Conference
Date: 4/18/ 21
Location of Talk: Binghamton University
Title: The Effects of Vilazodone, YL-0919, and Vortioxetine in L-DOPA Treated Hemiparkinsonian Rats

Name: Binghamton University Research Days
Date: 4/26/ 22
Location of Talk: Binghamton University Conference Center
Title: The effect of L-DOPA on prepulse inhibition in the hemi-parkinsonian rat

Name: Research Days Undergraduate Conference
Date: 4/28/21
Location of Talk: Binghamton University
Title: The Effects of the Serotonin 5-HT2A agonist DOI on prepulse inhibition in rats

Name: Research Days Undergraduate Conference
Date: 5/1/ 22
Location of Talk: Binghamton University
Title: The Effects of the Serotonin 5-HT2A agonist DOI on prepulse inhibition in rats

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Published Abstracts

Name: SUNY Cortland's Transformations Undergraduate Research Conference
Date: 4/26/19
Location of Poster Presentation: SUNY Cortland
Title: The Effects of Prenatal Exposure to Environmental Enrichment Mediates Consumption in Female Adolescent Rats

Name: SUNY Cortland's Transformations Undergraduate Research Conference
Date: 4/26/19
Location of Poster Presentation: SUNY Cortland- Transformations
Title: Emerging Interest in Romantic Relationships may Threaten Adolescent Friendships: A Correlational Study

Name: Eastern Psychological Association Conference
Date: 2/28-3/2/19
Location of Poster Presentation: New York, N.Y.
Title: The Effects of Environmental Enrichment Mediates Ethanol Consumption in Female Adolescent Rats

Name: SUNY Undergraduate Research Conference
Date: 4/26/19
Location of Poster Presentation: SUNY Adirondack
Title: The Effects of Environmental Enrichment Mediates Ethanol Consumption in Female Adolescent Rats

Name: Summer in Biomedical Sciences Research Expo
Date: 7/15/19
Location of Poster Presentation: University of Alabama at Birmingham
Title: Relationships between White Matter Microstructure, Neurochemistry and Conditioned Fear Responses in Posttraumatic Stress

Name: Annual Biomedical Research Conference for Minority Students (ABRCMS)
Date: 11/9/19
Location of Poster Presentation: Anaheim, CA
Title: Relationships between White Matter Microstructure, Neurochemistry and Conditioned Fear Responses in Posttraumatic Stress

Name: Eastern Psychological Association
Date: 3/23/21
Location of Poster Presentation: Boston, MA
Title: The Effects of Environmental Enrichment on Prenatal Alcohol Exposed Adolescent Female Rats

Name: Research Days Undergraduate Conference
Date: 4/21/21
Location of Talk: Binghamton University (on zoom)
Title: The Effects of Vilazodone, YL-0919, and Vortioxetine in L-DOPA Treated Hemiparkinsonian Rats

Name: Society for Neuroscience
Date: 11/13/21
Location of Poster Presentation: Chicago, IL
Title: The effects of L-DOPA-induced- motor and non-motor side effects in a bilateral rat model of Parkinson's disease

Name: Society for Neuroscience
Date: 11/13/21
Location of Poster Presentation: Chicago, IL

Title: The Effects of Vilazodone, YL-0919 and Vortioxetine in L-DOPA treated hemiparkinsonian rats

Name: Society for Neuroscience
Date: 11/13/21
Location of Poster Presentation: Chicago, IL
Title: Characterizing Cellular Activation following L-DOPA Treatment in a Hemiparkinsonian LacZ Rat Model

Name: Society for Neuroscience
Date: 11/13/22
Location of Poster Presentation: San Diego, CA
Title: Characterizing the Relationship Between L-DOPA-induced-dyskinesia and Psychosis-like Behaviors in a Bilateral Rat Model of Parkinson's Disease

Name: Society for Neuroscience
Date: 11/13/22
Location of Poster Presentation: San Diego, CA
Title: The Effects of Vilazodone, YL-0919 and Vortioxetine in L-DOPA treated hemiparkinsonian rats

Name: International Basal Ganglia Society (IBAGS)
Date: 6/13-6/16/23
Location of Poster Presentation: Stockholm, SE
Title: The Effects of Chemogenetic Targetting of Serotonin-Projecting Pathways on L-DOPA-induced Dyskinesia and Psychosis in a Bilateral Rat Model of Parkinson's Disease

Name: International Congress for Movement Disorders
Date: 9/27-10/1/24
Location of Poster Presentation: Philadelphia, PA
Title: Investigating an Emerging Anxiety-like Phenotype in a Novel Bilateral Rodent Model of Parkinsonian Alpha-Synuclein Pathology

Name: International Congress for Movement Disorders
Date: 9/27-10/1/24
Location of Poster Presentation: Philadelphia, PA
Title: Effects of ectopic dopamine D2 autoregulation of raphe-striatal dopamine release on L-DOPA driven behaviors in a hemiparkinsonian rat model

Name: Society for Neuroscience
Date: 11/11-11/15/24
Location of Poster Presentation: Chicago, IL
Title: Investigating the role of dopamine D3 receptors in dopamine dysregulation syndrome in a bilateral 6-OHDA rat model of Parkinson's Disease

Name: Society for Neuroscience

Date: 11/11-11/15/24
Location of Poster Presentation: Chicago, IL
Title: Effects of Genetic Knockdown of the Serotonin Transporter on Established L-DOPA-Induced Dyskinesia and Gene expression in hemiparkinsonian rats

Name: Gordon Research Conference: In Vivo Magnetic Resonance
Date: 7/12-7/17/26
Location of Poster Presentation: Andover, NH
Title: Treatment-Related Changes in Resting State Functional Connectivity in Parkinson's Disease

Invited Talks

Date: 4/9/19
Location of Talk: SUNY Cortland- Behavioral Neuroscience
Title: The Effects of Prenatal Exposure to Environmental Enrichment Mediates Consumption in Female Adolescent Rats

Date: 9/12/19
Location of Talk: SUNY Cortland Research Recruitment Night
Title: The Effects of Prenatal Exposure to Environmental Enrichment Mediates Consumption in Female Adolescent Rats

Date: 10/10/21
Location of Talk: Binghamton University Research Symposium
Title: Characterizing the Relationship Between L-DOPA-induced-dyskinesia and Psychosis-like Behaviors in a Bilateral Rat Model of Parkinson's Disease

Date: 12/15/25
Location of Talk: Barrow Neurologic Institute
Title: Investigating mechanisms of αlpha-synuclein-induced pathology in a novel rat model of Parkinson's Disease

Date: 3/25/25
Location of Talk: Binghamton University Neuroscience Club Mixer
Title: Parkinson's Disease, what is it and why should you get involved?

Date: 4/7/2025
Location of Talk: Binghamton University AI Graduate Workshop
Title: AI Job Tools for PhDs seeking non-academic careers

PROFESSIONAL SKILLS

- IRB protocol development, approval & revision
- Large data set management
- Microsoft software: Word, PowerPoint, Excel

- Scientific communication
- Grant writing
- Experimental theory and execution
- MRI sequence development (GE)
- Coding Software (Terminal, Python, Anaconda, Jupiter)
- MR Imaging Tools (FSL eyes, Horos)
- Statistics (R Studio, SPSS, GraphPad Prism)
- Critical thinking and problem solving
- Time management
- Mentorship
- Organization and Attention to Detail

LAB SKILLS

- Stereotaxic Aseptic Surgical Techniques
    - 6-hydroxydopamine Medial Forebrain Bundle Unilateral & Bilateral Lesion
    - Adeno-associated Viral Vector Delivery
    - Cannulation
- Motor Behavioral Assays
    - Rotarod
    - Forepaw Adjusting Steps
    - Abnormal Involuntary Movement
    - Locomotor Chambers
    - Cylinder Test
    - Grip Test
    - Catwalk
- Non-Motor Behavioral Assays
    - Successive Alleys Test
    - Elevated Plus Maze
    - Novelty-Induced Hypophagia
    - Open Field Test
    - Von Frey Test
    - Prepulse Inhibition Test
    - Head Twitch and Rearing Test
    - Treadmill Exercise
- Neurochemical Assays
    - In Vivo Microdialysis
    - High Performance Liquid Chromatography
- Post-Mortem Assays
    - Ex Vivo Electrophysiology
    - Immunofluorescence
    - Immunohistochemistry
    - Microscopy
    - Cell counting & Quantification
    - Genotyping
    - Tissue Dissection

    - Live Decapitation
    - Transcardial Perfusion
    - Cryostat
    - Microtome
    - Bicinchoninic Acid Assay
- Additional Skills
    - Injections (s.c, i.p)
    - Microinjections
    - Vaginal Lavage & Estrous Cycle Evaluation
    - Breeding Animals
    - Weaning & Ear Punching Pups
    - Large Solution Prep

PROFESSIONAL AFFILIATIONS

- National Leadership Alliance, 2018- present
- National Honors Society of Leadership and Success, 2017-present
- Eastern Psychological Association, 2018-present
- Society for Neuroscience, 2019-present
- American Psychological Association, 2020-present
- Movement Disorders, 2022-present

COMMUNITY SERVICE

Organizations

- Girls on the Run Foundation
- Special Olympics polar plunge and tournaments
- June S. Smith Foundation
- Yards for Yeardly walk
- Cortland Pumpkin Festival
- Take back the night sexual assault awareness walk
- Broome County Humane Society

OTHER

- Psychology Department's Undergraduate Mentoring Program
- Senior Honors Thesis Mentor
- Academic Peer Mentor

- Alpha Sigma Alpha Sorority
- Teaching Assistant for Statistical Methods and Behavioral Neuroscience
- Equal Opportunity Program Statistics tutor
- Intramural Soccer
- Intramural Badminton
- Peer Ambassador
- Habitat for Humanity Club
- Psychology club
- Sexual Health Awareness club
- Housing Chairwoman for Alpha Sigma Alpha Sorority
- Green Representative
- Community Orchestra

References

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