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Education

2027	McGovern Medical School, Houston, TX Medical Scientist Training Program	MD
2025	University of Texas at Houston, Houston, TX Neuroscience, advisor: Valentin Dragoi	PhD
2017	Johns Hopkins University, Baltimore, MD Post-Baccalaureate Premedical Program	
2014	Swarthmore College, Swarthmore, PA With high honors in philosophy and linguistics	BA
2013	University of Oxford, Oxford, UK Study abroad: philosophy of mind	

Work

2021 – Now	Graduate Research Assistant, Dragoi Lab McGovern Medical School, <i>Houston, TX</i> Investigate how neural circuits process visual information <ul style="list-style-type: none">• Implement new machine learning algorithm generating optimal stimuli for neurons in visual cortex• Develop novel applications to laminar layers, surround and synchrony
2016 - 2019	Research Assistant, Marvel Lab Johns Hopkins Medical School, <i>Baltimore, MD</i> Studied how the cerebellum contributes to cognition <ul style="list-style-type: none">• Designed new cognitive tasks to examine visuospatial skills, gestalt processing, implicit sequence learning and verbal encoding• Administered tasks to controls and ataxia patients

Publications

- M. Joyce, P. Nadkarni, S. Kronemer, [...], **M. Slapik**, et. al. (2022). "Quality of life changes following the onset of cerebellar ataxia: Symptoms and concerns self-reported by ataxia patients and informants." *Cerebellum*.
- O. Morgan., **M. Slapik**, K. Iannuzzelli, et. al. (2020). "The Cerebellum and Sequencing in Motor and Cognitive Domains: Evidence from Cerebellar Ataxia." *Cerebellum*.

- S. Kronemer, **M. Slapik**, J. Pietrowski, et. al. (2020). "Neuropsychiatric Symptoms as a Reliable Phenomenology of Cerebellar Ataxia." *Cerebellum*.
- M. Slapik**, S. I. Kronemer, O. Morgan, et. al. (2018). "Visuospatial Organization and Recall in Cerebellar Ataxia." *Cerebellum*.

Presentations

Talks

- O. Morgan, **M. Slapik**, K. Iannuzzelli, et al. (2018). "Motor and Cognitive Sequencing in Cerebellar Ataxia." Hot Chair Talk. National Ataxia Foundation's 9th Ataxia Investigators Meeting. Virtual.
- O. Morgan, **M. Slapik**, S. Kronemer, et al. (2018). "Motor-cognitive Multitasking in Cerebellar Ataxia." Presentation to the faculty and staff of the Johns Hopkins Ataxia Clinic, Baltimore, MD.
- M. Slapik**, O. Morgan, J. Creighton, et. al. (2018). "Timing and Sequencing in Cerebellar Ataxia." Nanosymposium talk accepted for presentation at: Society for Neuroscience San Diego, CA.
- O. Morgan, J. Creighton, **M. Slapik**, et. al. (2018). "Neural correlates of value-driven attentional capture in addiction." Nanosymposium talk accepted for presentation at: Society for Neuroscience, San Diego, CA.
- M. Slapik**, O. Morgan, C. Marvel. (2018). "Language Abilities in Cerebellar Ataxia." Presentation to the faculty and staff of the Johns Hopkins Ataxia Clinic, Baltimore, MD.
- M. Slapik**, S. Kronemer, O. Morgan, et. al. (2017). "Visuospatial Organization and Recall in Cerebellar Ataxia." Talk presented at: Sensorimotor Day, Johns Hopkins University, Baltimore, MD.

Posters

- M. Slapik**, A. Andrei, S. Khan, et al. (2022). "Deep Networks Design Optimal Stimuli for Early Visual Cortex." Society for Neuroscience. San Diego, CA.
- M. Slapik**, S. Patwardhan, R. Costa, et al. (2020). "Using Machine Learning To Classify Feeding Behavior in Aplysia." American Physician Scientists Association. Houston, TX.
- O. Morgan, **M. Slapik**, S. Kronemer, et al. (2019). "Motor-Cognitive Multitasking in Machado-Joseph's Disease." The International MJD Research Conference, Washington, DC.
- E. Hill, **M. Slapik**, O Morgan, et al. (2018). "Abstract Thinking in Cerebellar Ataxia." Poster at: Iowa Neuroscience Institute Workshop, Cerebellum in Bipolar Disorder and Other Neuropsychiatric Diseases, Iowa City, IA.
- C. Marvel, J. Creighton, O. Morgan, **M. Slapik**, et al. (2018). "Cerebro-Cerebellar Contributions to Working Memory in Early Lyme Disease." International Society of Behavioral Neuroscience, Anchorage, AK.
- O. Morgan, **M. Slapik**, S. Kronemer, et al. (2018). "Motor-cognitive Multitasking in Cerebellar Ataxia." The National Ataxia Foundation's 8th Ataxia Investigator's Meeting, Philadelphia, PA.

- M. Slapik, J. Pietrowski, O. P. Morgan, et al. (2018). "A Characterization of Language Impairment in Cerebellar Ataxia." The National Ataxia Foundation's 8th Ataxia Investigator's Meeting. Philadelphia, PA.
- C. Marvel, J. Creighton, O. Morgan, M. Slapik, et al. (2018). "Cerebro-Cerebellar Contributions to Working Memory in Early Lyme Disease." Society for Neuroscience, San Diego, CA.
- M. Slapik, S. Kronemer, J. Mandel, et al. (2017). "Visuospatial Processing and Strategy Formation in Cerebellar Ataxia." Society for Neuroscience, Washington, D.C.

Volunteering

2021 – Now	Volunteer Counselor Crisis Text Line, <i>Houston, TX</i> <ul style="list-style-type: none"> • Support callers on the crisis line going through thoughts of suicide, self-harm, and other emotional crises • Undergo extensive training on therapy techniques like active listening and lack of judgement
2021 – Now	Shadowing, Department of Psychiatry UTHealth, <i>Houston, TX</i> <ul style="list-style-type: none"> • Shadow psychiatrists and residents treating a variety of psychiatric disorders in an inpatient psychiatry ward
2017 – 2019	Team Leader, Health Resource Coordinator Charm City Clinic, <i>Baltimore, MD</i> <ul style="list-style-type: none"> • Assist clients with wide range of social issues, including medical treatment, insurance, employment, and housing • Led a small team of other volunteers and advised them on how to best assist their clients
2016 – 2019	Shadowing, Parkinson's Neuropsychiatric Clinic Johns Hopkins Medicine, <i>Baltimore, MD</i> <ul style="list-style-type: none"> • Shadowed a psychiatrist specializing in Parkinson's patients, addressing medication management, quality of life and psychiatric symptoms
2015 – 2016	Emergency Room Volunteer Penn Presbyterian Medical Center, <i>Philadelphia, PA</i> <ul style="list-style-type: none"> • Took incoming calls, paged nurses, restocked supplies, and observed procedures
2015 – 2016	Front-Desk Volunteer Washington West Project, <i>Philadelphia, PA</i> <ul style="list-style-type: none"> • Enrolled patients for STD and HIV screening and counseling

Awards

2018	Awarded travel stipend at The National Ataxia Foundation's 8 th Ataxia Investigator's Meeting
2014	Awarded high honors in philosophy and linguistics in the Swarthmore College Honors Program
2010	National merit semifinalist

Skills

Electrophysiology: Acute and chronic recording

MRI: Structural scans

Eye-Tracking: Eyelink

Data analysis: Matlab, Python, SPSS

Machine Learning: Matlab, Python

Task Development: E-Prime, PsychToolbox

Hobbies

2003 – Now	Jazz Saxophone <ul style="list-style-type: none">• Bayou City Funk• The Chirp Chirps
2019 - Now	Machine Learning Journal Club <ul style="list-style-type: none">• Leadership Committee
2000 - Now	Classical and Jazz Piano