# Mitchell B. Slapik

MD/PhD Candidate McGovern Medical School mslapik@gmail.com

Education	Ì
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McGovern Medical School, Houston, TX Medical Scientist Training Program	MD
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University of Texas at Houston, Houston, TX Neuroscience, advisor: Valentin Dragoi	PhD
Johns Hopkins University, Baltimore, MD Post-Baccalaureate Premedical Program	
Swarthmore College, Swarthmore, PA With high honors in philosophy and linguistics	ВА
University of Oxford, Oxford, UK Study abroad: philosophy of mind	
Graduate Research Assistant, Dragoi Lab McGovern Medical School, <i>Houston, TX</i>	
<ul> <li>Investigate how neural circuits process visual inform</li> <li>Implement new machine learning algorithms stimuli for neurons in visual cortex</li> <li>Develop novel applications to laminar lassynchrony</li> </ul>	m generating optimal
Research Assistant, Marvel Lab Johns Hopkins Medical School, <i>Baltimore, MD</i>	
Studied how the cerebellum contributes to cognition	on
<ul> <li>Designed new cognitive tasks to examin gestalt processing, implicit sequence le encoding</li> <li>Administered cognitive tasks, emotional que</li> </ul>	learning and verbal
	Neuroscience, advisor: Valentin Dragoi  Johns Hopkins University, Baltimore, MD Post-Baccalaureate Premedical Program  Swarthmore College, Swarthmore, PA With high honors in philosophy and linguistics  University of Oxford, Oxford, UK Study abroad: philosophy of mind  Graduate Research Assistant, Dragoi Lab McGovern Medical School, Houston, TX Investigate how neural circuits process visual inform  Implement new machine learning algorithm stimuli for neurons in visual cortex  Develop novel applications to laminar lasynchrony  Research Assistant, Marvel Lab Johns Hopkins Medical School, Baltimore, MD  Studied how the cerebellum contributes to cognitice  Designed new cognitive tasks to examin gestalt processing, implicit sequence encoding

## **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. lannuzzelli, 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

- M. Slapik, Andrei, S. Khan, et al. (2022). "Optimal Stimuli as a New Method to Investigate Neural Networks." Precandidacy Talk at Fall Neuroscience Retreat for UTHealth. Cleveland, TX.
- 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 8<sup>th</sup> 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 8<sup>th</sup> 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. Kronemser, 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, Houston, TX

- 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, Houston, TX

 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, Baltimore, MD

- Asist 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, Baltimore, MD

 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, Philadelphia, PA

 Took incoming calls, paged nurses, restocked supplies, and observed procedures

#### 2015 – 2016 Front-Desk Volunteer

Washington West Project, Philadelphia, PA

Enrolled patients for STD and HIV screening and counseling

# Awards

2022	2 <sup>nd</sup> place pre-candidacy talk at Fall Neuroscience Retreat for UTHealth in Cleveland, TX
2022	Travel Award from the Graduate Student Education Committee for Society for Neuroscience in San Diego, CA
2022	Travel Award from the Graduate School of Biomedical Sciences for Society for Neuroscience in San Diego, CA
2022	Travel Award from the Department for Neurobiology and Anatomy for Society for Neuroscience in San Diego, CA
2018	Travel Award at The National Ataxia Foundation's 8th Ataxia Investigator's Meeting
2014	High Honors in philosophy and linguistics in the Swarthmore College Honors Program
2009	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  Bayou City Funk The Chirp Chirps	
2019 - Now	Machine Learning Journal Club  Leadership Committee	
2000 - Now	Classical and Jazz Piano	