

# Lydia J. Mitchell

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## EDUCATION

### **Case Western Reserve University, Cleveland, OH. — M.S Candidate in Biostatistics, School of Medicine**

Expected Graduation Date: DECEMBER 2024

- B.S./M.S. dual degree program- admitted August of 2023
- Healthcare Analytics Track

### **Case Western Reserve University, Cleveland, OH. — B.S. Candidate in Neuroscience, College of Arts & Sciences**

Expected Graduation Date: MAY 2024

- Minor in Chemistry
- Pre-med Track

### **University of Maryland, Baltimore-County, Baltimore, MD. — B.S. Candidate in Biochemistry & Psychology**

AUGUST 2020- MAY 2021

- Honors College Certificate
- Pre-med Track

## WORK EXPERIENCE

### **The Suh Laboratory, Department of Neuroscience, Lerner Research Institute at Cleveland Clinic — Undergraduate Researcher**

MAY 2022 - PRESENT

- Studying the migration of newborn neurons in the hilar area of the hippocampus and the effect of the development of temporal lobe epilepsy in mice
- Sectioned, stained, and mounted mouse brain tissue samples for imaging
- Captured images of the hippocampus using specialized microscopes and counted newborn neurons in the hilar area
- Ran qPCR samples to check the validity of primers used in mouse models
- Conducted pilocarpine experiments in mice
- Performed perfusions to collect brain tissue
- Administered injections into mouse models

## SKILLS

BRU trained for lab animal work- specifically trained for mice work

AEMR Trained

CPR/First Aid Certified-  
American Red Cross

## AWARDS

**CWRU Dean's High Honors -**  
Awarded Fall of 2021 & Spring  
of 2023 for a GPA of 3.7+

**CWRU Dean's Honors -**  
Awarded Fall of 2022 for a  
GPA of 3.5+

**UMBC President's List- Awarded**  
Spring of 2021 for 4.0 GPA

**UMBC Dean's List- Awarded Fall**  
of 2021 for 3.7+ GPA

**Provost Scholarship- University**  
of Maryland, Baltimore-County  
Merit Scholarship recipient

**DC-CAP Scholarship- D.C.**  
College Access Program grant  
recipient

**Think Global Scholarship- 2023**  
CWRU study abroad scholarship  
recipient

- Utilized MatLab to run spike detection software to analyze the number of seizure spikes from raw EEG data in mouse models
- Manually analyzed raw EEG data of experimental and control groups in mouse models for seizure activity
- Performed immunohistochemistry on brain tissue samples

## **Center for Human Genetics, University Hospitals — *Genetic Counselor Assistant***

JUNE 2022 - PRESENT

- Processed insurance prior authorizations & BCMH applications
- Mailed and wrote letters on behalf of providers to families
- Called patients families regarding appointments
- Faxed medical documents
- Uploaded and scanned paperwork & notes into the electronic medical record system
- Transitioned paper medical files into the electronic system
- Aided providers in ordering genetic testing
- Organized genetic testing kits

## **The Tartakoff Laboratory, Department of Microbiology at Case Western Reserve University — *Undergraduate Research Student***

JANUARY 2022 - MAY 2022

- Grew and analyzed various strains of yeast using a microscope to look at different transcription factors within the nucleolus
- Captured images to compare the prevalence of transcription factors
- Ordered RNA primers for different strains of yeast
- Ran PCR experiments

## **Graduate Studies Office Student Employee, Case Western Reserve University**

SEPTEMBER 2021 - JANUARY 2022

- Updated Graduate Student database with recent information about their careers 5 & 10 years post graduation
- Edited and sent out the Graduate Education Office's weekly newsletter via email
- Updated and posted on the Graduate Education Office's facebook

## **PRESENTATION EXPERIENCE**

## **Summer Research Student Symposium, Cleveland Clinic Lerner Research Institute**

AUGUST 2023

- Presented research project on the "Hyper-activation of Hippocampal Newborn Neurons Results in Abnormal Neurogenesis and Epileptogenesis in Mouse Models"

## **Intersections Research Symposium, Case Western Reserve University**

DECEMBER 2023

- Presented research project on the “Hyper-activation of Hippocampal Newborn Neurons Results in Abnormal Neurogenesis and Epileptogenesis in Mouse Models”

## **VOLUNTEER EXPERIENCE**

### **Cleveland Sight Center, Service for Sight**

AUGUST 2022-DECEMBER 2022

- Created puffy paint pictures for the preschool at the Sight Center
- Promoted the Cleveland Sight Center & Service for Sight

### **Habitat for Humanity, Door Painting Event**

OCTOBER 2022

- Participated in Habitat for Humanity’s door painting event to raise money for Service for Sight
- Painted a door to participate in the event

### **The Ronald McDonald House, Washington, D.C. Location**

JUNE 2022 - PRESENT

- Sets up events for families such as an ice-cream social for the families staying at the house
- Cleaned out and re-stocked the kitchen
- Organized the toy closet and pantry
- Helped to answer calls and questions from families
- Set-up decorations for various holidays

### **Judson Senior Living, Gift-Wrapping Project**

APRIL 2023

- Wrapped umbrellas to give to residents as a spring gift
- Wrapped a total of 100 umbrellas in 2 hours with a total of 5 participants

### **Judson Senior Living, Family Fun Day**

APRIL 2023

- Set-up activities, transported residents to and from activities, helped residents complete art projects, and engaged with families
- Volunteered for a total of 3 hours

## **Next-Step: the Intern/Co-op Experience Panelist, CWRU Greek Life Education Office**

FEBRUARY 2023

- A featured panelist for the Intern/Co-op Experience panel, set up by CWRU'S Greek Life Office to help interested students learn about finding internships and Co-ops
- I talked with several students about finding research internships and mentors

## **The Sibling Experience: A Q&A for Parents Led by Siblings of JM Patients Panelist, 14th Annual Cure JM Conference**

JULY 2023

- A featured panelist on the Sibling experience with the Cure JM Foundation at their 14th annual conference

## **SHADOWING EXPERIENCE**

### **Center for Human Genetics, University Hospitals**

JULY 2022 - AUGUST 2022

- Shadowed providers and licensed genetic counselors in the Center for Human Genetics at University Hospitals
- Completed 16 clinical hours

## **LEADERSHIP ROLES**

### **Delta Gamma Sorority, Theta Beta Chapter — Director of Primary Recruitment**

NOVEMBER 2023 - PRESENT

- Works directly under the Vice President of Recruitment
- Guides day directors for each day of recruitment and is responsible for Day 1 & 3 directors
- Responsibilities include performing outfit checks for each day of recruitment, collaborating on party plans for each day of recruitment, serving on EVC, and matching chapter members with potential new members.

### **Delta Gamma Sorority, Theta Beta Chapter — Vice President of Foundation**

DECEMBER 2022 - PRESENT

- Responsible for Delta Gamma's involvement in our philanthropy, Service for Sight
- Communicates directly with the Cleveland Sight Center, Judson Manor Retirement Home, and Abbington Arms for service opportunities for members

- Promotes service opportunities to chapter members
- Plans and runs philanthropy events including Pancake Night & Anchor Splash
- Plans and runs service activities for chapter members such as crafts for the Cleveland Sight Center, making dog toys for guide dogs, and making braille cards
- Tracks members' service hours and uploads them to AnchorBase
- Serves on Delta Gamma's Executive Board along with other Vice Presidents and the President

### **Delta Gamma Sorority, Theta Beta Chapter — *Director of Community Standards***

MAY 2022 - DECEMBER 2022

- Responsible for maintaining chapter's standing according to CWRU Greek life Standards
- Coordinated with CMT & JCMT members for necessary documentation
- Uploaded documentation to Greek Life

### **Order of Omega, Sigma Eta Chapter — *General Body Member***

APRIL 2023 - PRESENT

- Member of the premier Greek life Leadership Fraternity
- Assist other chapters on campus

### **Students Meeting About Risk and Responsibility Training (S.M.A.R.R.T.) — *General Body Member***

APRIL 2023 - PRESENT

- General body member
- Organizes and gives presentations on important topics such as substance abuse, self-care, and sexual health for college students in Greek Life
- Gives the Upstander presentation that is required for all new members of greek life

### **Case Neuroscience Society (CNS)— *Mentor***

SEPTEMBER 2023 - PRESENT

- Upperclassman mentor for underclassmen interested in pursuing a degree in Neuroscience
- Responsibilities include providing guidance to new students on the major, getting involved in research, and future career paths