

# Madison Lee

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## EDUCATION

**Indiana University**, Bloomington, IN

May 2020

*Bachelor of Science*

GPA: 3.95/4.0

Majors: Neuroscience, Psychology

Minor: Cognitive Science

**University of Western Australia**, Perth, WA

July – December 2018

- Gained an understanding of the similarities and differences between research procedures in the United States and in Australia by visiting academic labs while abroad at UWA

**Vanderbilt University**, Nashville, TN

Anticipated Completion: May 2025

*Ph.D. Psychological Sciences – Cognition in Context*

GPA: 4.0/4.0

Advisor: Dr. Daniel Levin

## HONORS AND AWARDS

Undergraduate Honors Thesis, 2020: “Authorship effect in handwriting: Comparing neural activity of perceiving self-produced versus other-produced letters”

Sharon Stephens Brehm Excellence in Research Award, 2020

Lilly Endowment Scholarship, 2016

Provost Scholarship & Distinguished Scholar Award, 2017

## RESEARCH EXPERIENCE

**Cognition and Action Neuroimaging (CAN) Laboratory**, Indiana University

August 2017 – May 2020

*Research Assistant*

Bloomington, IN

- Conducted both behavioral and fMRI experiments that study developmental cognitive processes such as how gestures might facilitate learning and the relationship between variability and categorization
- Analyzed neuroimaging data to create interpretable figures that can offer implications on cognition

**Laboratory in Electrical Brain Activity**, Indiana University

January – May 2019

*Student Researcher*

Bloomington, IN

- Created small in-class experiments to learn how researchers practically apply the theory behind EEG as well as gained thorough training in proper placement of electrodes
- Practiced the critical skill of clear scientific communication by presenting scholarly articles to peers and writing multiple reports on experiments conducted in the lab

**Levin Lab**, Vanderbilt University

June 2020 – Present

*Graduate Researcher*

Nashville, TN

- Investigating the relationship between visual perception and knowledge in naturalistic settings under the supervision of Dr. Daniel Levin
- Beginning to develop mentorship skills while supervising an undergraduate research assistant

### **Skills acquired through research experiences:**

- Neuroimaging analysis via BrainVoyager
- Acquiring EEG data via Biopac Systems Inc
- Handling children in challenging settings e.g. fMRI
- Final Cut Pro film editing
- Statistical analysis via SPSS, SAS, JASP
- Designing experiments via SuperLab
- Python programming
- Experiment building in Qualtrics

### **CONFERENCE PRESENTATIONS**

1. Wright, A., Lee, M., & Levin, D. (2020). How Theory of Mind May Help and Hurt Dynamic Multimedia Learning. Poster presented at the Psychonomic Society Annual Meeting. Virtual.

### **TEACHING EXPERIENCE**

**Department of Psychological and Brain Sciences, Indiana University** Spring 2018, Spring 2019  
*Undergraduate Teaching Assistant, Introduction to Neuroscience*

- Discovered the impact varying teaching strategies have on student learning, realizing even nuances in presenting lecture material can alter a student's understanding of the topic
- Executed tasks, such as grading exams, with efficiency to provide the professor ample time to prepare for lectures and focus on the needs of students

**Department of Psychological and Brain Sciences, Indiana University** Fall 2019  
*Undergraduate Teaching Assistant, Lab in Electrical Brain Activity*

- Began forming an individual teaching and grading style by being given the independence to create new course material and grade lengthy lab reports
- Met with students who needed individual attention in understanding new topics or exercises, and worked diligently to ensure the student's preferred learning strategies were kept in mind when communicating information

**Peabody College of Education and Human Development, Vanderbilt University** Fall 2020  
*Graduate Teaching Assistant, Experimental Research Methods in Child Development*

- Further developed a teaching style of my own by leading in class discussions and activities
- Learned what it takes to effectively run a hybrid course while ensuring virtual students feel involved

**Peabody College of Education and Human Development, Vanderbilt University** Fall 2020  
*Guest Lecturer, Experimental Research Methods in Child Development*

- Created my own set of PowerPoint slides to give a lecture over research in cognitive development

### **LEADERSHIP EXPERIENCE AND CIVIC ENGAGEMENT**

**Royal Family Kids' Camp** July 2012 – June 2018  
*Guide and Mentor* Wilkinson, IN

- Catered to the necessities of 30+ local kids who come from an abusive or neglecting environment and was personally responsible for the safety and happiness of five young girls during each week of camp
- Created an encouraging, upbeat atmosphere that reinforced positive psychological development for each child

**Lilly Scholars Network**

*Recruitment Chair*

August 2017 – May 2019

Bloomington, IN

- Involved in a team of Lilly Scholars focused on building professionalism while serving the local community
- Recruited newly awarded Lilly Scholars to IU to increase the number of students who have a passion for philanthropy on our campus

**RELEVANT WORK EXPERIENCE**

**Collaborating for Kids, LLC**

*Applied Behavioral Analysis Therapist*

June – August 2017

Greenwood, IN

- Utilized ABA therapy to help a child with autism achieve independent skills like eating, greeting friends, and detecting basic emotions in himself and others