

**TAYLOR-PAIGE GUBA**  
College of Education and Human Development  
University of Delaware  
guba@udel.edu

**EDUCATIONAL HISTORY**

University of Delaware (expected May 2025)

Education PhD

Concentration: Learning Sciences

Certificate in Cognitive Science

Indiana University - May 2021

GPA: 3.944

Graduated with Highest Distinction and Honors Notation

- Cognitive Science BA
  - Concentration: Linguistics
  - Honors Thesis: Effects of Attentional Momentum on Addition Verification
- Jewish Studies BA
- Linguistics Minor

**AWARDS AND SCHOLARSHIPS**

- Dean's Scholar (UD) 2021-Present
- Kate Hevner Mueller Award (IU) Spring 2021
- Dr. Carolyn Lipson-Walker Outstanding Senior Award/Scholarship (IU) Fall 2020
- Sandra and Stanley Trockman Scholarship (IU) 2020-2021
- Friends of the Borns Jewish Studies Program Scholarship (IU) 2020-2021
- Executive Dean Award: Undergraduate Research & Creative Activity (IU) Spring 2020
- Cognitive Science Undergraduate Outstanding Contribution Award (IU) Spring 2020
- Leonard Goldstein Scholarship (IU) 2019-2020
- IU Founders Scholar 2018-2021
- Phi Eta Sigma – IU Chapter 2018-2021
- Judd Scholarship (IU) 2018-2019
- McIntire Scholarship (IU) 2018-2019
- Herbert Presidential Scholarship (IU) 2017-2021
- Kroot Scholarship (IU) 2017-2021
- Provost Scholarship (IU) 2017-2021
- Balfour Scholarship (IU) 2017-2021
- IU Executive Dean's List 2017-2021
- Mary Fink Scholarship (National Council of Jewish Women) 2017-2018
- Indiana Elks Scholarship (Indiana Elks Association) 2017-2018

- Departmental Scholarship (IU) 2017-2018

## RESEARCH EXPERIENCE

### Center for Improving Fraction Learning

*Research Assistant*

2021-Present

- Conducted experimental research for an IES-funded project on 6th graders' fraction learning. Designed/made/refined materials and designed a FileMaker database for data storage, oversaw and mentored undergraduate research assistants

### Learning, Education, and Development Lab

*Research Assistant*

2018-2021

- Conducted experimental research on children's early learning skills. Developed coding schemes, coded data, presented results, contributed to a published manuscript.
- Worked on a project examining critical thinking skills in adults. Refined study materials, programmed qualtrics surveys, contributed to a manuscript in review.
- Conducted an independent Honors Thesis on adults' mathematics processing ability and the effects of attentional momentum (still in progress). Designed the experiment, prepared an IRB protocol, recruited participants, collected data, and managed a research assistant.

### Midwest Undergraduate Cognitive Science Conference

*Director*

2019-2021

- Managed conference personnel, secured keynote speakers, created and distributed advertisement materials, requested funding from multiple sources, acquired a location for the event (and built the web-based platform for the virtual conference during COVID-19), and organized the conference details

### Gregory S. Fehribach Center

*Research Intern at the Regenstrief Institute*

Summer 2019

- Assisted with data collection, participant recruitment, and auditing research studies for projects involving mental agility in old age, diabetes, and weight loss in women

### Midwest Undergraduate Cognitive Science Conference

*Assistant Director*

2018-2019

- Helped organize a full-day conference for undergraduate researchers in Cognitive Science. Planned details of the event and set up a graduate student panel.

## **PUBLISHED ARTICLES**

Flynn, M. E., Guba, T. P., & Fyfe, E. R. (2020). ABBABB or 1212: Abstract language facilitates children's early patterning skills. *Journal of Experimental Child Psychology*, 193, 104791. doi:10.1016/j.jecp.2019.104791

## **ARTICLES UNDER REVIEW**

Motz, B. A., Fyfe, E. R., Guba, T. P. *Learning to Call Bullsh\*t via Induction Categorization Training Improves Critical Thinking Performance.*

## **CONFERENCE PRESENTATIONS**

Guba, T. P. & Fyfe, E. R. (2020, April). Storytelling as Problem Solving. Poster presented at the Center of Excellence for Women & Technology's (CEWIT) 7th Annual Women's Research Poster Competition in Bloomington, IN.

Flynn, M. E., Guba, T. P., & Fyfe, E. R. (2019, April). Abstract language facilitates children's early patterning skills. Oral presentation at the 11th Annual Midwest Undergraduate Cognitive Science Conference (MUCSC) in Bloomington, IN.

Flynn, M. E., Guba, T. P., & Fyfe, E. R. (2019, October). Using quantitative labels to promote children's patterning skills. Poster presented at the Biennial Meeting of the Cognitive Development Society (CDS), Louisville, KY.

## **RESEARCH IN THE MEDIA**

Reboot Foundation, [New Research Shows Simple Activities Can Improve Critical Thinking Skills](#), August 30th, 2021

EdSurge, [Improving Critical Thinking May Take Practice](#), September 8th, 2021

## **TEACHING EXPERIENCE**

*Q-Instructor*

Fall 2020

- Taught an eight-week course for incoming freshmen at the Collins Living-Learning Center
- Covered topics related to adapting to life at Indiana University and the Collins Living-Learning Center including managing stress and academic planning, getting involved in clubs and organizations, embracing the diverse student population, living sustainably, and creating programs for other students

## **PROFESSIONAL EXPERIENCE**

### **College of Arts and Sciences Executive Deans' Office**

#### *Student Manager*

2020-2021

- Managed 15 student workers, which included scheduling shifts, planning and executing meetings, coordinating student workers for events, hiring new student workers, and constant communication with student workers
- Assisted in the daily happenings of the office including, but not limited to, receiving appointments of the deans and academic advisors and announced them, kept inventory of the building's supplies, and helped progress general projects within the office

### **College of Arts and Sciences Executive Deans' Office**

#### *Student Assistant*

Spring 2020

- Assisted in the daily happenings of the office including, but not limited to, receiving appointments of the deans and academic advisors and announced them, kept inventory of the building's supplies, and helped progress general projects within the office

### **Collins Living-Learning Center Board of Educational Programming**

#### *Co-chair*

2019-2021

- Coordinated meetings with potential instructors of Collins courses, scheduled board meetings, created agendas and ran meetings, created a constitution and by-laws, oversaw a treasurer, secretary, instructor liaison, and two programmers
- Helped in evaluating proposed courses for Collins and deciding which ones to accept; this included interviews, consultations, and faculty meetings

### **Indiana University Themester**

#### *Outreach and Events Intern*

Fall 2019

- Advertised, supervised, and evaluated events related to the semester's theme: Remembering and Forgetting

### **Collins Living-Learning Center Board of Educational Programming**

#### *Programmer*

2017-2019

- Created, organized, facilitated, and advertised educational events at Collins, including dinners and small group discussions with professors, trivia nights, book clubs, etc.
- Helped in evaluating proposed courses for Collins students and deciding which ones to accept; this included interviews, consultations, and faculty meetings

### **Jewish Federation of Greater Indianapolis**

*Educational Initiatives Intern* Summer 2018

- Designed curriculum for instructing assistant teachers at religious schools around the area, taught lunch-and-learns with colleagues, formed a new youth organization based in philanthropy in the community

### **Indianapolis Hebrew Congregation**

*Life-Long Learning Intern* Summer 2018

- Served as an assistant to the Director of Life-Long Learning, which included organizing materials for the coming school year, helping set up a recycling program, and creating curriculums for elementary school students in religious school

## **COLLEGE AND COMMUNITY INVOLVEMENT**

### **College of Arts and Sciences**

*Member of the Inaugural Executive Dean's Advisory Board* 2020-Present

- Established the purpose of the advisory board with the eight other members and wrote governing documents for future members
- Advised the dean on decisions which affected undergraduate students in the college and voiced concerns of undergraduate students

### **Indiana University Student Government**

*Executive Co-Director of Academic Affairs* 2020-Present

- Managed a freshman intern and a committee who worked to enact policies approved by the student congress
- Discussed university policies (drop/add fees, transcript fees, COVID-19 classroom accountability, accessibility in online courses, etc.) with administrators in order to make changes which benefited students

### **Student Organization for Cognitive Science**

*Co-President* 2019-Present

- Organized weekly meetings in which students engaged in small group discussion with professors in the IU Cognitive Science Program

### **Collins Residence Hall**

*Floor Governor* 2019-2020

- Worked with the President of Collins to amend the residence hall's constitution to reflect the recent changes of its occupation and its relationship to the living-learning center housed within it
- Represented residents of Hillcrest Apartments at meetings discussing funding allocation, distributed announcements, and reported occurrences within the apartment building community to the Board of Governors

### **Jewish Studies Student Association**

*Director of Programming* 2018-2020

- Amended the association's constitution to reflect its modern functions, reimagine officer positions, and specify membership
- Planned, organized, and facilitated social programs for students in the IU Jewish Studies Program

**Collins Living-Learning Center Director Search Committee**

*Student Representative* 2020

- Interviewed and recommended candidates for the Collins Living-Learning Center Director alongside the College of Arts and Sciences Dean of Arts and Humanities, the Associate Director of Collins, a former Director of Collins, and a representative from Residential Programming and Services

**Indiana University Themester**

*Planning Committee Student Representative* 2019

- Helped in planning the coming Themester (a themed semester); this included working with faculty to allocate funding to proposed events, choose films for students, and recruit a marquee speaker

**Collins Residence Hall**

*General Assembly Delegate* 2018-2019

- Represented the residence hall in meetings between all residence halls on campus

**Collins Residence Hall**

*Welcome Week Coordinator of Assistants* 2018

- Supervised and coordinated events of Indiana University's Welcome Week, which aims to make incoming freshmen transition smoothly to college, with special involvement in the Collins Residence Hall

**RELEVANT COURSEWORK**

- Qualitative Research Methods (Grade: A) 2021
- Research and Theory: Math Curriculum (Grade: A) 2021
- Phonology (Grade: A+) 2021
- Morphology (Grade: A) 2021
- Language and Prehistory (Grade: A+) 2020
- Introduction to Statistics (Grade: A) 2020
- Peer Instructor Workshop (Grade: A+) 2020
- Evolution of Human Cognition (Grade: A) 2020
- Honors Research Project in Cognitive Science (Grade: A+) 2019-2021
- Experiments and Models in Cognitive Science (Grade: A+) 2019
- Syntax (Grade: A+) 2019
- Computation in Cognitive Science (Grade: A+) 2019

- Programming in Cognitive and Information Sciences (Grade: A+) 2019
- Research in Cognitive and Information Sciences (Grade: A) 2018-2019
- Phonetics (Grade: A) 2018
- Math and Logic for Cognitive Science (Grade: A) 2018
- Philosophical Foundations of Cognitive Science (Grade: A) 2018
- Introduction to the Study of Language (Grade: A) 2017