

# Alicia L. Macchione

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## EDUCATION

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**Indiana University**, Bloomington, IN Fall 2016 – Spring 2019  
 Bachelor of Arts, Major GPA: 3.43/4.0  
**Major:** Psychology

**Ball State University**, Muncie, IN 2015

## RESEARCH INTERESTS

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I am interested in exploring the minority experience—in particular the intersection of gender, ethnicity, and race, and its implications for identity development and educational attainment.

## AWARDS AND SCHOLARSHIPS

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**Sharon Stephens Brehm Excellence in Research Award**, Indiana University's  
 Department of Psychological and Brain Sciences, [\$250] Spring 2019  
**1<sup>st</sup> Place Research Poster Award**, Center of Excellence for Women in Technology's  
 (CEWiT) Research Poster Competition, Indiana University, [\$100] Spring 2019  
**Engaged Learning Travel Scholarship**, Indiana University, [\$750] Spring 2019  
**Dean's List**, Indiana University Fall 2019  
**Dean's List**, Indiana University Spring 2018  
**Dean's List**, Ball State University Spring 2016

## SKILLS SUMMARY

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Research (development, data collection, observational coding, presenting, subject recruitment) ·  
 Statistical Analyses (SPSS) · Experimental Design (Qualtrics) · Database management  
 (FileMaker) · Microsoft Office and Excel · IRB writing · Website Design (WCMS) · Strong  
 leadership and collaborative skills · Exceptional communication and interpersonal abilities ·  
 Practical problem solving · Outstanding organizational skills with excellent attention to detail

## RESEARCH EXPERIENCE

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**Social Roles Laboratory**, Indiana University Fall 2018 – Current  
 Primary Investigator: Amanda Diekman, PhD.  
*Research Assistant*

- Examine the effects of environmental cues on women in male-dominated STEM fields
- Contribute to research on social role theory through literature search and data collection
- Collect and analyze data related to group differences, stereotypes, and social change

**Stereotyping, Prejudice, and Facial Expression Lab**, Indiana University Fall 2018 – Current  
 Primary Investigator: Kurt Hugenberg, PhD.  
*Research Assistant*

- Collect data for in-person studies examining how our perceptions of other's faces and bodies influence the inferences we make about them
- Design a website to provide the lab with a platform to promote ongoing studies, publish publications, and recruit new participants and research assistants

**Cognitive Development Laboratory**, Indiana University

Spring 2018

Primary Investigator: Linda Smith, PhD.

*Research Assistant*

- Researched children's cognitive processes in understanding place value
- Ran 1-2 participants weekly in experimental sessions focusing on the language and gestures used when teaching a mathematical lesson on the topic of place value

**Learning, Education, and Development Laboratory**, Indiana University Fall 2017 – Current

Primary Investigator: Emily Fyfe, PhD.

*Research Assistant, Independent Project Coordinator*

- Research children's development of mathematical knowledge and problem solving
- Recruit and run participants in weekly experimental tutoring sessions
- Design an independent research experiment on stereotype threat and mathematics learning
- Work collaboratively with Dr. Fyfe and other research associates to develop coding schemes to analyze learning strategies in young children
- Conduct extensive literature search on gender differences in mathematics
- Present current findings to research team and at local and national conferences

**RELEVANT ACADEMIC EXPERIENCE**

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**Gender, Work, & Leadership**, College of Arts & Sciences, Indiana University Fall 2018

- Explore gender issues related to work and leadership such occupational segregation, wage gaps, power dynamics, negotiation, and work/family integration

**Behavior Modification**, College of Arts & Sciences, Indiana University Spring 2018

- Studied the principles and applications of behavior modification ranging from positive and negative reinforcement, aversive conditioning, desensitization, and token economies through an independent self-behavior modification experiment

**Cognitive Psychology**, College of Arts & Sciences, Indiana University Fall 2017

- Investigated human cognitive processes such as attention, perception, and memory through 3 independent research experiments using a Java Applet software

**Experimental Psychology**, College of Arts & Sciences, Indiana University Spring 2017

- Studied variations of the Stroop Effect through independent research experiments
- Surveyed undergraduates on implicit attitudes regarding age, race, and gender

**Statistical Techniques**, School of Sciences & Humanities, Ball State University Fall 2016

- Explored statistical concepts and techniques used in the analysis of psychological data
- Studied measures of central tendency, variability, correlation, hypothesis testing, and methods of statistical inference

**Psychology of Women**, School of Sciences & Humanities, Ball State University Fall 2015

- Created coding scheme for popular romance films to study gender themes and differences

**PRESENTATIONS**

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Fyfe, E.R., **Macchione, A.L.** (2019, November). Children's errors on a repeating pattern task and their associations with formal numeracy knowledge. Talk to be given at the Psychology of Mathematics Education's (PME-NA) Annual Conference; St. Louis, MO.

**Macchione, A.L.,** Fyfe, E.R. (2019, May). The effects of feedback during problem solving in the context of stereotype threat. Poster to be presented at Association for Psychological Science Annual Convention; Washington, DC.

**Macchione, A.L.,** Fyfe, E.R. (2019, April). Learning in stereotype conditions: how feedback influences women's mathematics performance. Poster to be presented at Indiana University's Center of Excellence for Women in Technology's (CEWiT) Research Poster Competition; Bloomington, IN.

**Macchione, A.L.,** Vest, N.A., Fyfe, E.R. (2019, March). Point to those! Grouping gestures predict children's early patterning skills. Poster presented at Society for Research in Child Development Biennial Meeting; Baltimore, MD.

**Macchione, A.L.,** Fyfe, E.R. (2018, November). Gender predicts performance on 6-year-olds' knowledge of place value. Poster presented at Indiana Psychological Association Poster Session & Abstract Competition; Noblesville, IN.

**Macchione, A.L.,** Flynn, M.E., Fyfe, E.R. (2018, April). The effect of gender on children's pattern-making skills. Poster presented at Indiana University's Center of Excellence for Women in Technology's (CEWiT) Research Poster Competition; Bloomington, IN.

## **CO-CURRICULAR + LEADERSHIP EXPERIENCE**

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**Child-Scientist Activity Week (C-SAW),** Indiana University Summer 2018  
*Research Coordinator*

- Helped organize camp activities, such as educational games and demonstrations, designed to teach children more about senses, memory, emotions, and coordination
- Designed and administered ~20 weekly research experimental sessions focusing on mathematics knowledge and problem solving with children ages 4-7

**Harmony High School** Fall 2017 – Spring 2018  
*Tutor*

- Tutored high school students on a weekly basis regarding research methodologies
- Collaborated with a mentee to develop an independent research project examining the effectiveness of art therapy as a coping mechanism in middle school children

**Psychology Club,** Indiana University Fall 2017 – Current  
*Member*

- Participate in quarterly philanthropic opportunities for the Psychology Department
- Attend monthly discussions from various psychology speakers

**Panhellenic Diversity & Inclusion Committee,** Indiana University Fall 2017 – Current  
*Appointed Representative*

- Serving on a committee including 20+ fellow undergraduates who are charged with implementing diversity and inclusion within the Greek community
- Facilitate a discussion panel regarding mental health stigma

**Safe Sisters,** Indiana University Fall 2016 – Current  
*Trained Emergency Responder*

- Serving as the appointed representative of Alpha Omicron Pi-Beta Phi Chapter to assist sorority sisters in issues regarding sexual assault awareness and prevention

- Attend yearly training sessions and monthly meetings to inform the Greek community of the dangers of sexual assault and the available resources