

# Joseph W. McKeon

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## EDUCATION

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### Georgia State University

*M.A. and Ph.D. in Psychology, Cognitive Sciences concentration*

Atlanta, GA

In Progress

### Agnes Scott College

*B.A. in Psychology, minor in Biology*

Decatur, GA

May 2020

## PUBLICATIONS

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**McKeon, E. J.,** Torres, J., Kazama, A., Bachevalier, J., & Raper, J. (2022). Differential responses toward conditioned and unconditioned stimuli, but decreased hypothalamic-pituitary-adrenal axis responsiveness in neonatal hippocampal lesioned monkeys. *Developmental Cognitive Neuroscience*, 58, 101165. <https://doi.org/10.1016/j.dcn.2022.101165>

**McKeon, E. J.,** Beran, M. J., & Parrish, A. E. (2022). Children (*Homo sapiens*) but not rhesus monkeys (*Macaca mulatta*) perceive the one-is-more illusion. *Journal of Comparative Psychology*, 136(4), 270-278. <https://doi.org/10.1037/com0000316>

**McKeon, E.,** & Beran, M. J. (2021). Planning. In J. Vonk & T. K. Shackelford (Eds.), *Encyclopedia of Animal Cognition and Behavior*. Springer, Cham. [https://doi.org/10.1007/978-3-319-47829-6\\_780-1](https://doi.org/10.1007/978-3-319-47829-6_780-1)

**McKeon, E. J.,** Trumbull, K. M., & Hughes, J. L. (2020). Supervisors' gratitude and employees' feelings about their supervisor and organization. *Psi Chi Journal of Psychological Research*, 25(3), 272-277. <https://doi.org/10.24839/2325-7342.JN25.3.272>

## MANUSCRIPTS IN PROGRESS

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**McKeon, J. M.,** Parrish, A. E., & Beran, M. J. (in revision). Object-based warping during distance discriminations by rhesus monkeys (*Macaca mulatta*) and capuchin monkeys (*Sapajus apella*). *Animal Behavior & Cognition*.

## GRADUATE PRESENTATIONS

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**McKeon, J. M.** & Beran, M. J. (2023, April). *Self-directed learning in nonhuman primates*. Poster presented at the 69<sup>th</sup> annual meeting of the Southeastern Psychological Association.  
Poster also presented with additional data at the annual Comparative Cognition Society Spring Conference (April 2023).

**McKeon, E. J.,** Beran, M. J., & Audrey, A. E., (2022, March). *Studying the illusory object-based warping distortion of space between objects in non-human primates*. Poster presented at the 68<sup>th</sup> annual meeting of the Southeastern Psychological Association.  
Poster also presented with additional data at the annual Comparative Cognition Society Spring Conference (April 2022).

**McKeon, E. J.,** Torres, J., Kazama, A., Bachevalier, J., & Raper, J. (2021, June). *Differential responses toward aversive stimuli and decreased HPA axis responsiveness in neonatal hippocampal lesioned monkeys*. Poster presented virtually at the 24<sup>th</sup> annual meeting of the Society for Behavioral Neuroscience.

**McKeon, E. J.**, Beran, M. J., Parrish, A. E. (2021, April) *Children (Homo sapiens) but not rhesus monkeys (Macaca mulatta), perceive the One-Is-More illusion*. Presented virtually at the annual Comparative Cognition Society Spring Conference.

Also presented at the GSU Cognitive Psychology Graduate Conference in March 2021.

**McKeon, E. J.**, Torres, J., Kazama, A., Bachevalier, J., & Raper, J. (2020, September). *Neonatal hippocampal lesions result in increased anxiety behaviors, but do not impact conditioned fear responses*. Poster presented virtually at the Pavlovian Society annual meeting.

## **CURRENT RESEARCH PROJECTS & TOPICS**

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**Delay of Gratification in Capuchin Monkeys** Summer 2023-Present  
*ManyPrimates2*

**Self-Directed Learning in Nonhuman Primates** Fall 2022-Present  
*Master's Thesis*

**The Disjunctive Syllogism in Rhesus Monkeys** Fall 2022-Present

**Visual Illusions in Nonhuman Primates** Fall 2020-Present

**Effects of Enclosure Enrichment on Cognitive Bias in Rhesus Monkeys** Fall 2019-Present

## **TEACHING EXPERIENCE**

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**Advanced Research Design and Analysis Lab** Spring 2023  
*Instructor on Record* Georgia State University

**Advanced Research Design and Analysis Lab** Fall 2022  
*Instructor on Record* Georgia State University

**Introduction to Research Design and Methods (Pre-recorded Guest Lecture)** March 2021  
*Topic: Basic Experimental Designs* Georgia State University

**Cognitive Psychology (Guest Lecture)** March 2021  
*Topic: Memory Errors* Georgia State University

**Introduction to Research Design and Methods (Pre-recorded Guest Lecture)** October 2020  
*Topic: Basic Experimental Designs* Georgia State University

## **COMMUNITY INVOLVEMENT AND SERVICE**

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**Letters to a Pre-Scientist** August 2023-Present  
*STEM Professional Mentor*

- Paired with a middle school student as a pen pal to during the school year to encourage the student's interest in and self-confidence in STEM.

**Comparative Cognition Society Equity, Diversity, and Inclusion Committee** June 2023-Present  
*Committee Member*

**APA Division 3 – Experimental Psychology and Cognitive Science** May 2023-Present  
*Student Affiliate*

**APA Division 6 – Behavioral Neuroscience and Comparative Psychology** **May 2023-Present**  
*Student Affiliate*

**APA Division 31 – State, Provincial & Territorial Affairs** **May 2023-Present**  
*Student Affiliate*

**Southeastern Psychological Association (SEPA), Psi Chi** **69<sup>th</sup> Annual Meeting**  
*Panelist*

- Served as a panelist for Psi Chi’s “Tips for Getting into Graduate School” panel discussion.

**Southeastern Psychological Association (SEPA)** **69<sup>th</sup> Annual Meeting**  
*Reviewer* *Fall 2022*

- Served as a reviewer for presentation proposals for the 69<sup>th</sup> Annual Meeting

**Better Together** **November 2022**  
*Exhibitor* *Emory University*

- Presented at the inaugural Better Together research day in metro Atlanta.
- Presentation involved educating psychology students and professionals on COMIC Lab research including comparative cognition, metacognition, and visual illusions.

**SPARK Family STEAM Night** **Fall 2021-Present**  
*Exhibitor*

- Present yearly with colleagues in the fall at Springdale Park Elementary School’s annual STEAM night.
- Presentation involves educating children and adults on Psychology research including comparative cognition and visual illusions.

**Psi Chi International Honor Society in Psychology, Agnes Scott College** **Decatur, GA**  
*President* *August 2019-May 2020*

- Called meetings to order and preside over them, announced business before the chapter, and delegated responsibilities
- Preserved order and decorum, lead membership, and acted as a role model for enthusiasm, integrity, and fairness

*Secretary* *August 2018-May 2019*

- Organized club agenda by taking meeting minutes; maintained digital records of club meetings and distributed to club officers
- Sent out email reminders to club members about events; kept a detailed record of current club members

**Psychology & Neuroscience Club, Agnes Scott College** **Decatur, GA**  
*Vice President* *August 2018-Present*

- Attended Inter-organizational Council (IOC) meetings to learn about policy changes, budget updates, and leadership skills; reported back to club officers with information from IOC meetings
- Submitted event and space requests to hold events

*Secretary* *September 2016-May 2018*

- Organized club agenda by taking meeting minutes; maintained digital records of club meetings and distributed to club officers
- Sent out email reminders to club members about events; kept a detailed record of current club members

**Scottie Allies Mentor Program, Agnes Scott College**

*Mentor*

**Decatur, GA**

August 2017-Present

- Acted as a mentor to a first-year student; provided mentee with guidance and assistance transitioning to college life

**Pre-Veterinary Society, Agnes Scott College**

*Secretary*

**Decatur, GA**

August 2018-December 2018

- Organized club agenda by taking meeting minutes; maintained digital records of club meetings and distributed to club officers
- Sent out email reminders to club members about events; kept a detailed record of current club members

**HONORS, AWARDS, SCHOLARSHIPS & MEMBERSHIPS**

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**Southeastern Psychological Association (SEPA)**

*Advanced Graduate Student Member*

**October 2022-Present**

**Comparative Cognition Society**

*Student Member*

**March 2020-Present**

**Phi Beta Kappa Academic Honor Society**

- Elected for membership based on academic talent and diligence in the liberal arts and sciences.

**May 2020-Present**

**Miriam K. Drucker Award for Excellence in Psychology**

*\$500*

**Awarded May 2020**

- This award was created in 1993 by students, colleagues, and friends of Professor Miriam Drucker and goes to the psychology senior who best exemplifies excellence in scholarship in the department

**TriBeta National Honor Society in Biology**

**May 2020-Present**

**Psi Chi International Honor Society in Psychology**

- Inducted as a member in 2018, served as an executive board member from 2018-2020

**August 2018-Present**

**Southeastern Psychological Association (SEPA)**

*Student Member*

**October 2018-October 2022**

**Society for Behavioral Neuroscience**

**April, 2021-October 2022**

**Pavlovian Society**

**August 2020-October 2022**

**CDVL Archive of Excellence**

*Digital Portfolio Showcase Finalist*

**Awarded December 2019**

- This award of excellence is given by Agnes Scott's Center for Digital and Visual Learning based on review of the student's digital portfolio

**Emily S. Dexter Award**

*\$500*

**Awarded April 2019**

- This award is given to rising seniors based on excellence in scholarship and leadership in the department of psychology

**Miriam K. Drucker Travel Research Award**

**Awarded April 2018**

\$750

- This award is given to psychology and neuroscience majors to offset the cost of attending a conference to present their research

### **Scholars Weekend Supplemental Scholarship**

**Awarded May 2016**

\$1,000 per year

- This award was given after a presentation on community issues to a panel of judges at Agnes Scott College in January 2016. The topic of the presentation was the development of a program to encourage young women in low-income communities to engage in local government, learn about local and federal policies, and cultivate a love and drive for leadership

### **Merit-based Scholarship to Agnes Scott College**

**Awarded January 2016**

\$22,000 per year

- At Agnes Scott, all students who apply early decision or early action are automatically considered for merit-based scholarships ranging from \$15,000-\$25,000 per year. These scholarships are awarded based on factors including academic achievement, community service, leadership and extracurricular involvement

## **UNDERGRADUATE PRESENTATIONS**

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**McKeon, E.J.,** Torres, J., Kazama, A., Bachevalier, J., & Raper, J. (2020, April). *Neonatal hippocampal lesions provoke increased anxiety behaviors in monkeys*. Poster accepted to present at the 66<sup>th</sup> annual meeting of the Southeastern Psychological Association. (Conference cancelled)

**McKeon, E. J.,** Hatcher, S., & Perdue, B. M. (2020, April). *Behavioral responses of elephants to a larger, more enriched enclosure*. Poster accepted to present at the Spring Annual Research Conference (SpARC) at Agnes Scott College, Decatur, GA. (Conference cancelled)

Dyer, Z., **McKeon, E. J.,** & Umana, J. (2019, April). *Male bean beetles (Callosobruchus maculatus) show a preference for virgin females*. Talk given at the Spring Annual Research Conference (SpARC) at Agnes Scott College, Decatur, GA.

Hatcher, S., **McKeon, E. J.,** & Perdue, B. M. (2019, April). *Examination of habituation of the Southern ground hornbills (Bucorvus leadbeateri) to researcher presence*. Poster presented at the Spring Annual Research Conference (SpARC) at Agnes Scott College, Decatur, GA.

King, D., Pittman, S., Bryant, C., & **McKeon, E. J.** (2019, April). *Effects of simulated chronic alcohol use on anxiety and depression*. Poster presented at the Spring Annual Research Conference (SpARC) at Agnes Scott College, Decatur, GA.

**McKeon, E. J.,** Hatcher, S., & Perdue, B. M. (2019, April). *The effects of visitor crowd size on aggression in Southern ground hornbills (Bucorvus leadbeateri)*. Poster presented at the Spring Annual Research Conference (SpARC) at Agnes Scott College, Decatur, GA.

Poster selected for the SpARC Top 10 Poster Award

**McKeon, E. J.,** Trumbull, K. M., Durak, E., & Hughes, J. L. (2019, March). *Supervisors' gratitude and employees' feelings about their supervisor and organization*. Poster presented at the 65<sup>th</sup> annual meeting of the Southeastern Psychological Association, Jacksonville, FL.

Presented at SEPA (2019) and SpARC (2019)

McDonnell, E. R., & McKeon, E. J. (2018, April). *The effect of emotional primers on global and local precedence*. Poster presented at the Spring Annual Research Conference (SpARC) at Agnes Scott College, Decatur, GA.

## **UNDERGRADUATE RESEARCH EXPERIENCE**

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**Division of Cognitive and Developmental Neuroscience, Yerkes NPRC** **Decatur, GA**  
*Research Assistant under the direction of Dr. J. Raper (Bachevalier Lab)* January 2019-Present

- Examine background literature, analyze data using SPSS, create graphs, and am preparing a manuscript for publication on research analyzing the effects of neonatal hippocampal lesions in rhesus monkeys (*Macaca mulatta*) on emotional responses towards conditioned and unconditioned aversive stimuli and regulation of the HPA axis
- Conducted cognitive testing on juvenile male rhesus monkeys using a standardized serial-order memory task (SOMT) to assess how pubertal changes impact the development of working memory
- Observed many laboratory techniques such as positive reinforcement training, blood collections, eye tracking technology, and magnetic resonance imaging
- Participated in feeding and provided destructible and environmental enrichment to the animals

**Behavioral Management Department, Yerkes NPRC** **Atlanta, GA**  
*Research Assistant under the direction of Drs. M. Bloomsmith & B. M. Perdue* July 2019-Present

- Participating in an ongoing research project investigating whether access to larger, outdoor spaces significantly improves the welfare of juvenile rhesus macaques (*Macaca mulatta*) using behavioral, biological, and affective measurements
- Collected behavioral data using Noldus Pocket Observer and conducted cognitive bias testing on the animals
- Worked closely with the animals and learned husbandry, behavior, health, and handling techniques
- Conducted positive reinforcement training to train animals to target areas of the cage and separate from their partner for cognitive testing

**Cognitive Neuroscience and Animal Behavior (CNAB) Lab, Agnes Scott College** **Decatur, GA**  
*Independent Researcher under the mentorship of Dr. B. M. Perdue* January 2020-May 2020

- Designed and conducted a study assessing the effects of increasing enclosure size and enrichment availability on stereotypic behaviors in African Elephants (*Loxodonta africana*) using continuous and instantaneous behavioral sampling
- Used SPSS to complete statistical analyses and compile results from behavioral data
- Created and presented a poster for a professional conference explaining the results of the study

**Positive Psychology Lab, Agnes Scott College** **Decatur, GA**  
*Research Assistant under the direction of Dr. J. L. Hughes* January 2018-October 2019

- Researched the effects of supervisors' expressed gratitude on employees' feelings about their organization and wrote a manuscript detailing the methods and findings
- Used SPSS to complete statistical analyses and compiled results from survey data
- Created and presented a poster for a professional conference explaining the results of the study

**Behavioral Ecology Lab, Agnes Scott College** **Decatur, GA**  
*Independent Researcher under the mentorship of Dr. I. Levin* January 2019-May 2019

- Completed field work and analyzed nesting behavior of Northern mockingbird (*Mimus polyglottos*) and brown thrasher (*Toxostoma rufum*) populations on Agnes Scott's Campus in response to night-time urban light levels
- Designed and conducted a study analyzing the effect of female mating status on male mate choice in bean beetles (*Callosobruchus maculatus*)
- Created and presented an oral presentation for a professional conference explaining the results of the male mate choice project

**Cognitive Neuroscience and Animal Behavior (CNAB) Lab, Agnes Scott College** **Decatur, GA**  
*Independent Researcher under the mentorship of Dr. B. M. Perdue* January 2019-May 2019

- Designed and conducted a study assessing the effects of visitor crowd size on aggression in Southern ground hornbills (*Bucorvus leadbeateri*) using continuous and instantaneous behavioral sampling
- Used SPSS to complete statistical analyses and compile results from behavioral data
- Created and presented a poster for a professional conference explaining the results of the study

**The Global Pathways Study (GPS), Agnes Scott College** **Decatur, GA**  
*Research Assistant under the direction of Dr. J. Peifer* January 2019-May 2019

- Assisted Dr. Peifer's research by compiling and reading literature, completing mini-projects, and educating the public about the GPS

**Neural Systems and Circuits; Mouse Behavioral Analysis Lab, Agnes Scott College** **Decatur, GA**  
*Independent Researcher under the mentorship of Drs. J. Larimore & B. Blatchley* January 2019-May 2019

- Investigated the impact of chronic alcohol use on anxiety and depression in C57/B6 laboratory mice
- Learned husbandry and handling techniques for C57/B6 laboratory mice, conducted weekly cage changes, and experimentally administered water, 3% ethanol solutions, or water deprivation
- Participated in behavioral testing such as the forced swim (behavioral despair) and open field tests
- Used SPSS to complete statistical analyses and compile results from behavioral data
- Created and presented a poster for a professional conference explaining the results of the study

## **WORK EXPERIENCE**

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**Psychology Department, Agnes Scott College** **Decatur, GA**  
*Learning Assistant (work-study)* August 2019-May 2020

- Helped students with questions and assignments related to psychology research statistics, research methods, and APA writing style
- Work with students directly to schedule tutoring times and map out goals for each session

*Administrative Assistant (work-study)* January 2018-May 2019

- Helped faculty with organizing files, grading student work, and entering grades
- Made copies, faxed documents, and worked with SPSS, Microsoft Word, PowerPoint, and Excel

**Chemistry Department, Agnes Scott College** **Decatur, GA**  
*Laboratory Assistant (work-study)* August 2018-May 2019

- Arranged labs according to lab preparation sheets, prepared solutions for experiments
- Assisted students in CHE220: Foundations of Inorganic and Physical Chemistry Lab with questions and lab safety procedures
- Maintained organized lab and prep area; cleaned glassware and apparatus

**Music Department, Agnes Scott College** **Decatur, GA**

*Office Assistant/Collegiate Chorale Assistant (work-study)*

October 2016-May 2018

- Assisted faculty and artist affiliates with organizing music and setting up rehearsal space
- Collaborated with Chorale Director on projects, including organizing the departmental music library
- Advertised and distributed posters for concerts; recorded and edited audio and video for concerts

## **SKILLS AND CERTIFICATIONS**

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- Completed Bystander Training (LinkedIn Learning), Foundations of Diversity, Equity, Inclusion, and Belonging Training (LinkedIn Learning)
- Proficient in the Statistical Package for the Social Sciences (SPSS), Microsoft Office Programs, and EndNote
- Completed CITI and AALAS Training in Social & Behavioral Research, Lab Animal Research (Mice & Non-Human Primates), IACUC protocols, and Animal Biosafety
- Knowledge in non-human primate husbandry (feeding, enrichment, positive reinforcement training), manual testing, and computerized cognitive testing