COURTNEY R. GERVER

The Pennsylvania State University 441 Moore Building, University Park, PA 16802 courtneygerver@gmail.com

EDUCATION

Ph.D., Cognitive Neuroscience (anticipated 2022) M.S., Cognitive Psychology The Pennsylvania State University Master's Thesis: Examining the Effect of Encoding-Retrieval Congruency on Associative Retrieval Advisor: Nancy A. Dennis, Ph.D.	2019- 2019
 B.S., Psychology; Minor, Criminal Justice St. Thomas Aquinas College Summa Cum Laude, Honors Program distinction Honors Theses: Connections Between Trait Narcissism & Social Media Use Advisor: Benjamin C. Wagner, Ph.D. Examining Conscientiousness as a Mediating Variable of Happiness and Procrastination Advisor: Susan K. Marell, Ph.D. 	2017
Visiting Student, Oxford Berkeley Program University of Oxford	SU 2016
RESEARCH EXPERIENCE	
 Graduate Research Experience The Pennsylvania State University Project: Empirically examine the effects of cognitive aging on associative and false memories using fMRI. Advisor: Nancy A. Dennis, Ph.D. Collect, clean, analyze, and visualize neuroimaging and behavioral data to examine the effects of aging on memory Lead team of 15 research assistants across two universities (Penn State University and Elon University) in data collection and analysis of multiple studies and technologies, including fMRI and eye-tracking 	2017-
Project: Examine the link between divergent thinking and false memories. Lab Rotation Advisor: Roger E. Beaty, Ph.D.	2019-

• Designed independent project using standardized computer

Trained and led team of 6 undergraduates on data collection

measures with intent of peer reviewed publication

Project: Validate ambulatory assessments of thoughts and cognitive abilities. 2018-2019
<u>Lab Rotation Advisor</u>: Jonathan G. Hakun, Ph.D.

- Created study protocol in E-Prime
- Analyzed data in R Studio
- Administered ambulatory assessments to college-aged subjects

NSF Research Experience for Undergraduates Research Assistant

Temple University

2015

Project: Developmental trajectory of spatial and mathematical abilities.

Advisor: Elizabeth A. Gunderson, Ph.D.

- Coded data using Adobe Photoshop
- Created poster for presentation at Cognitive Development Society Annual Meeting

Undergraduate Research Experience

Nathan S. Kline Institute for Psychiatric Research

Project: Investigate the longitudinal effects of aging using a cognitive battery, 2015-2017 VO2 Max, and fMRI.

Advisor: Anna MacKay-Brandt, Ph.D.

- Assisted with administration of experimental protocol on participants aged 6-85 for several longitudinal studies
- Assisted with community outreach and recruitment

St. Thomas Aquinas College

Project: Examine the relationship between conscientiousness, happiness, and procrastination. 2016-2017

Advisor: Susan K. Marell, Ph.D.

- Collected survey data and analyzed results using SPSS
- Wrote original manuscript based on research results

Project: Statistically examine the relationship between trait narcissism and 2015-2016 cross-platform social media use.

Advisor: Benjamin C. Wagner, Ph.D.

- Created and implemented original social media use measure
- Wrote IRB documentation for study approval

PUBLICATIONS

- 3. **Gerver, C. R.,** Overman, A. A., Babu, H. J., Hultman, C. E., & Dennis, N. A. (2020). Examining the neural basis of congruent and incongruent configural contexts during associative retrieval. *Journal of Cognitive Neuroscience*, *32*(9). 1796–1812. https://doi.org/10.1162/jocn a 01593
- 2. **Gerver, C. R.**, Neely, K. A., Kurkela, K. A., Diaz, M. T., Goodman, J. T., Blouch, S. L., Samimy, S., & Dennis, N. A. (2019). Shared neural recruitment across working memory and motor control tasks as a function of task difficulty and age. *Aging, Neuropsychology, and Cognition*. https://doi.org/10.1080/13825585.2019.1700898

1. Dennis, N. A., & Overman, A. A., **Gerver, C. R.,** McGraw, K., Rowley, M. A., & Salerno, J. M. (2019). Different types of associative encoding evoke differential processing in both younger and older adults: evidence from univariate and multivariate analyses. *Neuropsychologia*, 135. https://doi.org/10.1016/j.neuropsychologia.2019.107240

IN PREP PUBLICATIONS

- 3. Dennis, N. A., **Gerver, C. R.,** Carpenter, C. M., Overman, A. A., Elbich, D. E., Cowan, J. & Jenkins, C. (In prep). Using multivariate methodologies to understand associative false memories in aging.
- 2. **Gerver, C. R.**, Griffin, J. W., Dennis, N. A., & Beaty, R. E. (In prep). A meta-analytic examination of the relationship between memory and creative cognition.
- 1. Hakun, J. G. & **Gerver, C. R.** (In prep). An ultra-brief ambulatory assessment of working memory capacity.

PREREGISTERED ONGOING STUDIES

- 2. **Gerver, C. R.**, Dennis, N. A., & Beaty, R. E. (In prep). Examining the relationship between false memory susceptibility and divergent creative thinking abilities. <u>Preregistration</u>.
- 1. **Gerver, C. R.** & Dennis, N. A. (In prep). Examining the effect of scene complexity on associative memory: An eye-tracking study. Preregistration.

INVITED TALKS

1. **Gerver, C. R.,** Memory, aging, & all about graduate school. Invited to speak at Psi Chi Undergraduate Meeting on March 17, 2020. Event cancelled due to COVID-19.

POSTER PRESENTATIONS

- 13. **Gerver, C. R.,** Overman, A. A., Cowan, J., Jenkins, C., Kautz, B., Long, M., Seo, M. S., & Dennis, N. A. (2020). Manipulating associative encoding strategy impacts neural discriminability at encoding and retrieval. Presented virtually at the 2020 Cognitive Neuroscience Society Annual Meeting, Boston, MA.
- 12. **Gerver, C. R.,** Overman, A. A., Cowan, J., Jenkins, C., & Dennis, N. A. (2020). Encoding-retrieval congruency affects the neural processing of associative recollection in older adults. Poster accepted for presentation at the 2020 Cognitive Aging Conference, Atlanta, GA. Event cancelled due to COVID-19.

Note: Gray = maiden name

- 11. **Gray, C. R.,** Chamberlain, J. D., McGraw, K. E., Babu, H., Overman, A. A., & Dennis, N. A. (2019). The influence of memory performance on neural representations supporting associative retrieval. Presented at: Cognitive Neuroscience Society Annual Meeting, San Francisco, CA.
- 10. **Gray, C. R.**, Overman, A. A., McGraw, K. E., Rowley, M. A., Salerno, J. M., Hultman, C. E., & Dennis, N. A. (2019). Neural encoding differences between younger and older adults in associative memory. Presented at: Dallas Aging and Cognition Conference, Dallas, TX.
- 9. McCormick-Huhn, J. M., **Gray, C. R.,** Iriondo, H., Babu, H. J., Richardson, H., & Dennis, N. A. (2018). Using perceptual manipulations as a new approach for promoting unitization in older adults. Presented at: Cognitive Aging Conference, Atlanta, GA.
- 8. McGraw, K. E., Rowley, M. A., Salerno, J. M., Giglio, A. P., **Gray, C. R.**, Overman, A. A., & Dennis, N. A. (2018). Neural Encoding Differences in Older Adults' Associative Memory. Presented at: Cognitive Aging Conference, Atlanta, GA.
- 7. **Gray, C. R.**, Rowley, M. A., McGraw, K. E., Salerno, J. M., Giglio, A. P., Overman, A. A., & Dennis, N. A. (2018). Effect of Congruency Between Encoding and Retrieval on Associative Retrieval. Presented at: Cognitive Neuroscience Society Annual Meeting, Boston, MA.
- 6. **Gray, C. R.,** & Marell, S. K. (2017). Conscientiousness as a mediating variable of happiness and procrastination. Presented at Ignite: Second Annual St. Thomas Aquinas College Art, Design, & Scholarship Exhibition, Sparkill, NY.
- 5. **Gray, C. R.,** & Wagner, B. (2017). My news is important to share: Connections between narcissism and social media usage. Presented at: Society for Personality and Social Psychology Annual Convention, San Antonio, TX.
- 4. **Gray, C. R.,** & Wagner, B. (2016). My news is important to share: Connections between narcissism and social media usage. Presented at: New England Psychological Association Annual Meeting, Worchester, MA.
- 3. Femovich, M. R., **Gray, C. R.**, Hamdan, N., D'Esterre, A., & Gunderson, E. A. (2015). The role of gender in verbal versus spatial mental rotation strategies. Presented at: 9th Biennial Meeting of the Cognitive Development Society, Columbus, OH.
- 2. Hamdan, N., D'Esterre, A., Femovich, M. R., **Gray, C. R.**, Hildebrand, L., Black, C., & Gunderson, E. A. (2015). Fraction number line training leads to learning and transfer in early elementary students' fraction magnitude concepts. Presented at: 9th Biennial Meeting of the Cognitive Development Society, Columbus, OH.
- 1. **Gray, C. R.**, Femovich, M. R., Hamdan, N., D'Esterre, A., & Gunderson, E. A. (2015). Developmental trajectory of fraction area model strategy use in second and third graders. Presented at: 9th Biennial Meeting of the Cognitive Development Society, Columbus, OH.

GRANTS & AWARDS

Consulta	
 WSF Graduate Research Fellowship Program Honorable Mention 	2019
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Graduate Awards	
 Psychology Department Travel Award 	2018, 2019
Undergraduate Awards	
Gold Key Service Award	2017
St. Thomas Aquinas College Travel Award (\$1,000)	2017
Dean's List Recipient (all semesters)	2013-2017
 LEAD Level 2 STAC Student Leadership Series: Silver Award 	2016
 St. Thomas Aquinas College Student Leadership Award 	2016
Honorable Mention	
NSF Research Experience for Undergraduates Scholar	2015
Phoenix Award	2014
	2013
 Harry Golde and Terry McCoy Scholarship Award (\$150) 	
TEACHING EXPERIENCE	
Instructor	
The Pennsylvania State University, World Campus	
Elementary Statistics in Psychology (PSYCH200)	SP 2021
Elementary statistics in rsychology (rs1c11200)	3F 2021
Lab Instructor	
The Pennsylvania State University, University Park	
Basic Research Methods in Psychology (PSYCH301W)	
Basic Research Methods in Psychology (PSYCH301W)	SP 2020
Basic Research Methods in Psychology (PSYCH301W)	FA 2019
Invited Lecturer	
The Pennsylvania State University, University Park	
 Introduction to Psychology for Honors Students (PSYCH100) 	FA 2020
Topic: Associative and false memories	FA 2019
 Introduction to Psychology for Honors Students (PSYCH100) 	
Topic: Associative and false memories	SP 2019
 Neurobiology of Human Behavior (PSYCH260) 	
Topic: Biological basis of episodic memory impairments	FA 2017
 False Memory & Eyewitness Testimony (PSYCH490) 	
Topics: Weapon focus effect, false memories, and their	
application to eyewitness testimony	FA 2017
 Cognitive Development (PSYCH413) 	
Topic: Environmental influences on cognitive development	

 Elon University fMRI Workshop Topics: 3-day workshop on memory, aging, & fMRI basics 	SU 2020
 St. Thomas Aquinas College Introduction to Psychology (PSY100) Topic: Research Foundations 	SP 2017
Teaching Assistant The Pennsylvania State University, University Park, OA Neurobiology of Human Behavior (PSYCH260) Basic Research Methods in Psychology (PSYCH301W) Basic Research Methods in Psychology (PSYCH301W) Neurobiology of Human Behavior (PSYCH260) Senior Seminar in Cognitive Neuroscience (PSYCH490) Introduction to Psychology (PSYCH 101) Cognitive Development (PSYCH413) Psychology of Adjustments and Social Relationships (PSYCH471) False Memory and Eyewitness Testimony (PSYCH490) Cognitive Development (PSYCH413)	FA 2020 SP 2020 FA 2019 SP 2019 SP 2019 FA 2018 SP 2018 SP 2018 FA 2017 FA 2017
 Tutoring St Thomas Aquinas College Center for Academic Excellence Chegg Online Tutor 	2015-2017 2016-2017
St Thomas Aquinas College Center for Academic Excellence	
 St Thomas Aquinas College Center for Academic Excellence Chegg Online Tutor 	

St. Thomas Aquinas College

•	Researching Research Chair	2016-2017
•	Psychology Club Vice President	2014-2017
•	Yearbook Editor-In-Chief	2014-2017
•	Random Acts of Kindness Vice President	2014-2017
	St. Thomas Aquinas College Ambassador	2014-2017
	History Club Treasurer	2014-2016

PROFESSIONAL MEMBERSHIPS

Golden Key Honor Society	2019-
Cognitive Neuroscience Society	2017-
Alpha Phi Sigma National Honor Society	2017-
Psi Chi International Honor Society	2016-
Pi Gamma Mu International Honor Society	2016-
Alpha Chi National College Honor Society	2015-
Cognitive Development Society	2015

AD HOC REVIEWER

Neuropsychologia; Creativity Research Journal; Neurobiology of Aging; Aging, Neuropsychology, and Cognition; Basic and Applied Social Psychology.

POPULAR PRESS

Ward, P. & Hughes, E. (2 March, 2020). TidyX Review of the San Francisco Tree data set from TidyTuesday. Article.

RELEVANT SKILLS

Github, R Studio, MATLAB, Psychopy, E-Prime, SPM, FSL, SPSS, Microsoft Office Suite

Last updated: October 16, 2020