

COURTNEY GERVER

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EDUCATION

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| Ph.D., Cognitive Psychology <i>The Pennsylvania State University</i> | 2022 |
| M.S., Cognitive Psychology <i>The Pennsylvania State University</i> Summa Cum Laude | 2019 |
| B.S., Psychology; Minor, Criminal Justice <i>St. Thomas Aquinas College</i> Summa Cum Laude, Honors Program distinction | 2017 |
| Visiting Student, Oxford Berkeley Program <i>University of Oxford</i> | SU'16 |

PEER-REVIEWED PUBLICATIONS

10. **Gerver, C. R.**, Griffin, J. W., Dennis, N. A., & Beaty, R. E. (2023). Memory and creativity: A meta-analytic examination of the relationship between memory systems and creative cognition. *Psychonomic Bulletin & Review*, 30(6), 2116–2154. <https://doi.org/10.3758/s13423-023-02303-4>
9. Matheson, H. E., Kenett, Y. N., **Gerver, C.R.**, & Beaty, R. E. (2023). Representing creative thought: A representational similarity analysis of creative idea generation and evaluation. *Neuropsychologia*, 187, 108587. <https://doi.org/10.1016/j.neuropsychologia.2023.108587>
8. Hakun, J. G., Roque, N. A., **Gerver, C. R.**, & Cerino, E. S. (2023). Ultra-brief assessment of working memory capacity: Ambulatory assessment study using smartphones. *JMIR Formative Research*, 7, e40188. <https://doi.org/10.2196/40188>
7. Ricupero, S., Carpenter, C. M., Steinkrauss, A. C., **Gerver, C. R.**, Chamberlain, J. D., Monkman, R. G., Overman, A. A., & Dennis, N. A. (2023). Neural distinctiveness and reinstatement of hippocampal representations support unitization for associations. *Brain Research*, 1798, 148143. <https://doi.org/10.1016/j.brainres.2022.148143>

6. **Gerver, C.R.** (2022). The creativity-specificity induction: A memory-based creativity strategy can enhance creative divergent thinking but not memory in older adults. [Doctoral dissertation: The Pennsylvania State University]. <https://etda.libraries.psu.edu/catalog/22096cxg428>
5. Frith, E. *, **Gerver, C. R.** *, Benedek, M., Christensen, A. P., & Beaty, R. E. (2022). Neural representations of conceptual fixation during creative imagination. *Creativity Research Journal*. <https://doi.org/10.1080/10400419.2021.2008699>.
4. Dennis, N. A., Overman, A. A., Carpenter, C. M., & **Gerver, C. R.** (2022). Understanding associative false memories in aging using multivoxel pattern analyses. *Aging, Neuropsychology, & Cognition*. <https://doi.org/10.1080/13825585.2022.2037500>.
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*. 27(6), 864-879. <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. 1-14. <https://doi.org/10.1016/j.neuropsychologia.2019.107240>

Note: * = Co-first authors.

GRANTS, FELLOWSHIPS, & AWARDS

Grants and Fellowships

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| • Translational Science Fellowship | 2021 |
| • Supported by NIH grants TL1 TR002016 and UL1 TR002014 | |
| • Research and Graduate Studies Office Dissertation Award | 2021 |
| • NSF Graduate Research Fellowship Program Honorable Mention | 2019 |

Graduate Awards

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| • Psychology Department Research Funds | 2021 |
| • Psychology Department Travel Award | 2018, 2019, 2022 |

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
- STAC Student Leadership Award Honorable Mention 2016
- NSF Research Experience for Undergraduates Scholar 2015
- Phoenix Award 2014
- Harry Golde and Terry McCoy Scholarship Award (\$150) 2013

DIVERSITY & INCLUSION EFFORTS

Next-Gen Psych Scholars Program Member – Mentorship program for underrepresented undergraduates and post-baccalaureates interested in applying to graduate programs across Penn State

Graduate Women in Science Panelist – Connect, lead, and promote women in and across STEM disciplines at Penn State

Penn State Psychology Graduate Mentoring Program Mentor – Mentor junior graduate students across a variety of backgrounds in psychology at Penn State

Graduate School Application Resource List—Created [graduate school application resource list](#) to be shared with individuals from underrepresented or first-generation backgrounds to increase application transparency for all

POSTER PRESENTATIONS

15. **Gerver, C. R.**, Matheson, H. E., & Beaty, R. E. (2022). Neural representations underlying idea diversity during creative idea generation. Presented at the 2022 Cognitive Neuroscience Annual Meeting.
14. **Gerver, C. R.**, Overman, A. A., Carpenter, C. M., Cowan, J., Jenkins, C., & Dennis, N. A. (2021). Encoding-retrieval congruency affects the neural processing of associative recollection in young and older adults. Virtually presented at the 2021 Cognitive Neuroscience Society Annual Meeting.
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.

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, Worcester, 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.

RESEARCH EXPERIENCE

Graduate Research Experience

The Pennsylvania State University

Advisor: Nancy A. Dennis, Ph.D. 2017-2022

Lab Rotation Advisor: Roger E. Beaty, Ph.D. 2019-2022

Lab Rotation Advisor: Jonathan G. Hakun, Ph.D. 2018-2019

NSF Research Experience for Undergraduates Research Assistant

Temple University

Advisor: Elizabeth A. Gunderson, Ph.D. 2015

Undergraduate Research Experience

Nathan S. Kline Institute for Psychiatric Research

Advisor: Anna Mackay-Brandt, Ph.D. 2015-2017

St. Thomas Aquinas College

Advisor: Susan K. Marell, Ph.D. 2016-2017

Advisor: Benjamin C. Wagner, Ph.D. 2015-2016

TEACHING EXPERIENCE

Instructor

The Pennsylvania State University, World Campus

- Elementary Statistics in Psychology (PSYCH200) SP 2021
- Basic Research Methods in Psychology (PSYCH301W Lab) SP 2020
- Basic Research Methods in Psychology (PSYCH301W Lab) FA 2019

Elon University

- Neuroimaging workshop SU 2019

Teaching Assistant

The Pennsylvania State University, University Park, PA

- Neurobiology of Human Behavior (PSYCH260) FA 2021
- Neurobiology of Human Behavior (PSYCH260) FA 2020
- Basic Research Methods in Psychology (PSYCH301W) SP 2020
- Basic Research Methods in Psychology (PSYCH301W) FA 2019
- Neurobiology of Human Behavior (PSYCH260) SP 2019
- Senior Seminar in Cognitive Neuroscience (PSYCH490) SP 2019
- Introduction to Psychology (PSYCH 101) FA 2018
- Cognitive Development (PSYCH413) SP 2018
- Psychology of Adjustments and Social Relationships (PSYCH471) SP 2018
- False Memory and Eyewitness Testimony (PSYCH490) FA 2017
- Cognitive Development (PSYCH413) FA 2017

Invited Lecturer

The Pennsylvania State University, University Park

- Introduction to Psychology for Honors Students (PSYCH100) FA 2020
 - Topic: Associative and false memories
- Introduction to Psychology for Honors Students (PSYCH100) FA 2019
 - Topic: Associative and false memories
- Neurobiology of Human Behavior (PSYCH260) SP 2019
 - Topic: Neurobiological 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

St. Thomas Aquinas College

- Introduction to Psychology (PSY100) SP 2017
 - Topic: Research Foundations

INVITED TALKS

Gerver, C. R. The ins and outs of the graduate school application. Talk given at the Psi Chi Undergraduate Meeting on April 8, 2021.

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.

LEADERSHIP & INVOLVEMENT

The Pennsylvania State University

- SLEIC Student Advisory Committee Member 2019-2022
- AXONS Student Member 2017-2022
- Participants Across the Lifespan Database Graduate Coordinator 2017-2022
- Penn State Undergraduate Research Exhibition Judge 2020, 2021
- Graduate Women in Science Panelist 2020
- Junior mentor, Penn State Psychology Graduate Mentoring Program 2018

Duke University

- Summer School in Social Neuroscience and Neuroeconomics attendee 2019

Harvard Medical School

- NSLC Psychology & Neuroscience Team Advisor 2016

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

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| 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

Cerebral Cortex; Neuropsychologia; Neurobiology of Aging; Aging, Neuropsychology, and Cognition; Creativity Research Journal; 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, MATLAB, PsychoPy, Python, Machine Learning, E-Prime, SPM, FSL, SPSS, fMRIPrep, Microsoft Office Suite