

REBECCA L. WAGNER

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Education

Doctor of Philosophy

2022 – Expected 2027

The Pennsylvania State University, University Park, PA
Cognitive Psychology

Master of Science

2022 – Expected 2024

The Pennsylvania State University, University Park, PA
Cognitive Psychology

Bachelor of Science (*with honors*)

2021

University of Nebraska at Omaha, Omaha, NE
Psychology – Cognitive Science

Peer-Reviewed Publications

** denotes co-authorship*

Published

AuBuchon, A. M., **Wagner, R. L.**, & Sackinsky, M. (2024). Children's rehearsal development parallels that of self-talk in other executive functions. *Developmental Psychology*.
<https://doi.org/10.1037/dev0001697>.

AuBuchon, A. M. & **Wagner, R. L.** (2023). Self-generated strategies in the phonological similarity effect. *Memory & Cognition*, 51, 1683-1701. <https://doi.org/10.3758/s13421-023-01418-2>.

Wagner, R. L., Lyon, B. A., & AuBuchon, A. (2022). False memory for words in noise: An at-home Deese-Roediger-McDermott (DRM) experiment across adulthood. *Psi Chi Journal of Psychological Research*, 27(2), 154-165. <https://doi.org/10.24839/2325-7342.JN27.2.154>.

Under Review

In-Prep Publications

West, J. T., **Wagner, R. L.**, Steinkrauss, A., & Dennis, N. A. (*in-prep*). Investigating the cognitive correlates of semantic and perceptual false memory in older and younger adults: A multi-group latent variable approach.

Pre-Registered Studies

Wagner, R. L.*, Chamberlain, J. D.*, Dubec, L., West, J. T., & Dennis, N. A. A high-resolution investigation into the effects of interference on representational recapitulation within the subregions of the human medial temporal lobe. (OSF [pre-registration](#)).

Rebecca L. Wagner

Wagner, R. L. & Dennis, N. A. Examining the rejection of perceptual lures via recollection and novelty rejection: The role of representational recapitulation during retrieval. (OSF [pre-registration](#)).

West, J. T., **Wagner, R. L.**, Steinkrauss, A. C., & Dennis, N. A. Individual differences in false memories. (OSF [pre-registration](#)).

Skogerboe, H., **Wagner, R. L.**, & AuBuchon, A. M. The effect of list length and stimuli type on young adults' utilization of mnemonic strategies. (OSF [pre-registration](#)).

Research Dissemination

Seminar Talks

Wagner, R. L. (2023, June 2). *Taking a closer look at memory accuracy: Exploring how the strength of representational recapitulation may dictate selection of lure rejection strategies & A high-resolution investigation into the effects of interference on mnemonic similarity within the subfields of the human medial temporal lobe* [Seminar presentation]. Boys Town National Research Hospital 2023 Research Seminar Series, Omaha, NE.

Wagner, R. L. & Dennis, N. A. (2023, April 19). *Understanding the cognitive and neural contributions to false memory production during healthy aging* [Seminar presentation]. The Pennsylvania State University Cognitive Colloquium, University Park, PA.

Wagner, R. L. (2021, April 23). *Gorilla and REDCap for remote and online data collection* [Seminar presentation]. Boys Town National Research Hospital 2021 Virtual Research Methodology Seminar, Omaha, NE.

Wagner, R. L., AuBuchon, A. M., Lalonde, K. (2020, September 15). *Prolific and Gorilla: 100% remote and online data collection* [Seminar presentation]. Boys Town National Research Hospital 2020 Virtual Research Methodology Seminar, Omaha, NE.

Posters

Wagner, R. L., Dubec, L., West, J. T., Chamberlain, J. D., & Dennis, N. A. (2024, April 15). *A high-resolution investigation into the influence of interference on memory: Examining the role of the visual cortex and subregions of the hippocampus* [Conference presentation]. Cognitive Neuroscience Society Annual Meeting, Toronto, Canada.

West, J. T., **Wagner, R. L.**, Steinkrauss, A., & Dennis, N. A. (2024, April 15). *Investigating the cognitive correlates of semantic and perceptual false memory in older and younger adults: A multi-group latent variable approach* [Conference presentation]. Cognitive Neuroscience Society Annual Meeting, Toronto, Canada.

Sackinsky, M., AuBuchon, A. M., & **Wagner, R. L.** (2024, April 19). *Children's control over and awareness of their own rehearsal* [Conference presentation]. 96th Annual Meeting of the Midwestern Psychological Association, Chicago, IL.

Wagner, R. L. & AuBuchon, A. M. (2022, November 18) *Children's spontaneous recruitment of phonological memory strategies as a function of age and capacity* [Conference presentation]. Psychonomic Society's 63rd Annual Meeting, Boston, MA.

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AuBuchon, A. M., **Wagner, R. L.**, & Sackinsky, M. (2022, September 27) *The impacts of self-generated and instructed rehearsal on children's recall* [Conference presentation]. 2022 EAC Annual Meeting: Center for Perception and Communication in Children, Omaha, NE.

Wagner, R. L. (2022, April 4) *Asking the right questions: Differences in adult strategy reports during online experiments* [Conference presentation]. 2022 One Boys Town Research Conference, Omaha, NE.

Wagner, R. L. & AuBuchon, A. M. (2021, May 26). *Self-reported strategy use with phonologically similar and dissimilar word lists* [Conference presentation]. 2021 EAC Annual Meeting: Center for Perception and Communication in Children, Omaha, NE.

Wagner, R. L., Meidinger, R., Bhatti, D., Bertoni, J., & Marmelat, V. (2021, May 21). *Brain activation during single and dual task walking in people with Parkinson's Disease* [Conference presentation]. 2021 Human Movement Variability & Great Plains Biomechanics Joint Virtual Conference, Omaha, NE.

Wagner, R. L., AuBuchon, A. M., & Lyon, B. (2021, April 30). *Adult memory performance on the DRM task: A look at individual differences in self-conceived cognitive abilities* [Conference presentation]. 2021 Boys Town National Research Hospital Student Research Conference, Boys Town, NE.

Wagner, R. L., AuBuchon, A. M., & Lyon, B. (2021, April 22). *Irrelevant sound effects on false memory in the DRM paradigm* [Conference presentation]. Psi Chi Program of the 93rd Annual Meeting of the Midwestern Psychological Association, Chicago, IL.

Wagner, R. L., Meidinger, R., Bhatti, D., Bertoni, J., & Marmelat, V. (2021, March 26). *Brain activation during single and dual task walking in people with Parkinson's Disease* [Conference presentation]. University of Nebraska at Omaha Research and Creative Activities Fair, Omaha, NE.

Wagner, R. L., Meidinger, R., Bhatti, D., Bertoni, J., & Marmelat, V. (2020, September 4). *Longitudinal analysis of walking patterns and brain activity while dual tasking in people with Parkinson's Disease as predictors of falls* [Conference presentation]. 2020 Human Movement Variability & Great Plains Biomechanics Joint Virtual Conference, Omaha, NE.

Funding

Extramural

Psi Chi Undergraduate Research Grant

2020 – 2021

Irrelevant sound and age effects on false memory in the Deese-Roediger-McDermott paradigm

Role: Primary Investigator

Total Award: \$661.00

Intramural

Fund for Undergraduate Scholarly Experiences (FUSE) Grant

2020 – 2021

Irrelevant sound and age effects on false memory in the Deese-Roediger-McDermott paradigm

Role: Primary Investigator

Total Award: \$2500.00

Rebecca L. Wagner

Research Experience

Graduate Research Assistant

2022 – present

Cognitive Aging & Neuroimaging Lab, University Park, PA

Primary Investigator: Nancy Dennis, PhD

- Stimulus design for NSF grant
- Study design for NSF grant
- Programming tasks in Psychopy and E-Prime 3.0
- Using online interfaces (Prolific and Pavlovia) to collect data online with younger and older adults
- Collection of fMRI data from younger and older adults
- fMRI data preprocessing in fMRIPrep
- Univariate and multivariate fMRI data analysis in MATLAB and SPM12
- Behavioral data cleaning and analysis in R
- Overseeing a team of undergraduate research assistants

Protocol Coordinator

2022 – 2022

Multi-Lab Pediatric Cochlear Implant Subject Recruitment, Omaha, NE

Primary Investigators: Ellen Peng, PhD & Angela AuBuchon, PhD

- Coordinate IRB protocols across 7 research laboratories
- Create documentation for cross-laboratory methodologies
- Worked with the IRB
- Programming in REDCap

Laboratory Coordinator

2021 – 2022

Working Memory & Language Lab, Omaha, NE

Primary Investigator: Angela AuBuchon, PhD

- Administration of behavioral tests to children
- Online administration of behavioral tests to young adults
- Behavioral data cleaning and analysis in R
- Programming with E-Prime 3.0 and REDCap
- Worked with the IRB
- Study design for multiple projects under NIH COBRE grant
- Managed a team of research assistants
- Trained 4 research assistants

Primary Investigator

2021 – 2022

Department of Psychology, Omaha, NE

Advisors: Bethany Lyon, PhD & Angela AuBuchon, PhD

Primary Project: Irrelevant sound effects on adult false memory in the DRM paradigm

- Secured intra and extramural grant funding
- Project development and design
- Stimulus design
- Programming with Gorilla
- Used Prolific to recruit online participants from across the U.S.
- Behavioral data cleaning and analysis using R
- Manuscript writing

Rebecca L. Wagner

Research Assistant I

2019 – 2021

Working Memory & Language Lab, Omaha, NE

Primary Investigator: Angela AuBuchon, PhD

- Administration of behavioral tests to children and young adults
- Application of EMG electrodes
- Collection of EMG data in young adults
- Behavioral data analysis using Excel and R
- Programming with Gorilla and REDCap
- Stimulus design
- Recruitment of children and young adults
- Management of recruitment and scheduling portal
- Trained and managed 3 research assistants

Undergraduate Research Assistant

2019 – 2021

Center for Research in Human Movement Variability, Omaha, NE

Primary Investigator: Vivien Marmelat, PhD

- Administration of behavioral and neuroimaging tests to older adults
- Collection of fNIRS data to older adults
- Preprocessing and modeling of fNIRS data implemented in MATLAB
- Behavioral data analysis in Excel
- Behavioral test design

Undergraduate Research Assistant

2018 – 2021

Department of Psychology, Omaha, NE

Primary Investigator: Michael Cortese, PhD

- Administration of behavioral tests to young adults
- Behavioral data coding and cleaning in Excel
- Management of SONA participant portal
- Trained undergraduate research assistants on testing and lab protocols

Software Proficiencies

R Studio, E-Prime, Psychopy, MATLAB (SPM12), FSL, AFNI, Qualtrics, REDCap

Teaching Experience

The Pennsylvania State University

Psychology 542: Learning & Memory

Fall 2023

Guest Lecture Title: Cognitive Training and Aging

Teaching Assistant

2023 – *present*

University of Nebraska at Omaha

Psychology 4070: Cognitive Psychology

Fall 2021

Guest Lecture Title: Working Memory

Awards and Honors

The Pennsylvania State University

University Graduate Fellowship Award

2022 – 2027

Rebecca L. Wagner

University of Nebraska at Omaha

Magna Cum Laude	2021
Psychology B.S. Outstanding Major Award	2020 – 2021
Chancellor's List Recognition	Spring 2021, Fall 2020
Dean's List Recognition	Spring 2021, Fall 2020, Fall 2019, Spring 2019

Leadership and Involvement

The Pennsylvania State University

Psi Chi Undergraduate Poster Symposium Judge	Spring 2023
Graduate School Psychology Information Session Panelist	Fall 2022

University of Nebraska at Omaha

Graduate School Psychology Information Session Panelist	Spring 2022
Psi Chi International Honors Society in Psychology Chapter President	2020 – 2021
Psychology Undergraduate Program Student Committee Chair	2020 – 2021
Psychology Undergraduate Program Committee Member	2019 – 2020
Psychology Department Undergraduate Liaison	2019 – 2020
Psychology Department Undergraduate Representative	2019 – 2020
Psi Chi International Honors Society in Psychology Chapter Treasurer	2019 – 2020

Professional Memberships

Cognitive Neuroscience Society	2023 – <i>present</i>
Psychonomic Society	2022 – <i>present</i>
Psi Chi International Honors Society in Psychology	2019 – <i>present</i>