

# Emily R. Weichart

## Curriculum Vitae

### Contact

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### Education

- 2020 **Ph.D., Psychology**  
University of Virginia, Charlottesville, VA, USA  
Concentration: Cognitive Psychology  
Dissertation: *Characterizing and quantifying dynamic mechanisms of cognitive control*
- 2017 **M.A., Psychology**  
The Ohio State University, Columbus, OH, USA  
Concentration: Cognitive Psychology  
Thesis: *A dynamic conflict-based account of intra-trial decision making*
- 2013 **B.S., Psychology**  
The Ohio State University, Columbus, OH, USA  
Second Major in English, Minor in Neuroscience  
High Distinction (*magna cum laude*)  
Honors in the Arts and Sciences  
Honors Research Distinction in Psychology  
Thesis: *Tracking performance at the crossroads of perception and memory*

### Employment

- 2023 - **Assistant Professor**  
Principal Investigator (PI), Quantified Cognition Lab  
Department of Psychology  
Utah State University, Logan, UT, USA
- 2020 - 2023 **Postdoctoral Researcher**  
Model-based Cognitive Neuroscience Lab, PI: Brandon Turner, Ph.D. (primary)  
Cognitive Development Lab, PI: Vladimir Sloutsky, Ph.D. (secondary)  
The Ohio State University, Columbus, OH, USA
- 2017 - 2020 **Graduate Researcher**  
Computational Memory Lab, PI: Per Sederberg, Ph.D.  
University of Virginia, Charlottesville, VA, USA

2015 - 2017	<b>Graduate Researcher</b> Computational Memory Lab, PI: Per Sederberg, Ph.D. The Ohio State University, Columbus, OH, USA
2015 - 2017	<b>EEG and Eye-Tracking Lab Technician</b> The Ohio State University, Columbus, OH, USA
2013 - 2015	<b>Post-Baccalaureate Clinical Research Assistant</b> Computational Memory Lab, PI: Per Sederberg, Ph.D. (primary) Wexner Medical Center Neurological Institute, Ali Rezai, MD (secondary) The Ohio State University, Columbus, OH, USA

## Research

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### Funded Grants

<b>External</b>	
2026 - 2027	<b>United States Army Research Institute for the Behavioral and Social Sciences</b> Role: Sole PI Foundational Science Research Unit      W911NF261A110 <u>Early Career Grant:</u> Computationally decoding gaze-based information sampling to support adaptation in dynamic learning environments Total: \$125,000.00
<b>Internal</b>	
2024-2025	<b>Utah State University Office of Research</b> Role: Sole PI <u>Research Catalyst Grant:</u> The search for knowledge: Impacts of information search strategies on category learning and neurophysiology      A62271 Total: \$22,303.20

### Publications

*Author order conventions: First author = project lead; last author = senior investigator*

*\* denotes equal contributions*

*Underlined names denote undergraduate trainees*

### **Journal Articles**

**Weichart ER, Francis CS, & Sederberg PB.** (in press). Parsing inhibitory and mnemonic contributions to age-related decline in cognitive flexibility. *Psychology & Aging*. DOI: 10.1037/pag0000996.

- Weichart ER** & Darby KP. (2026). Overcoming the costs of selective attention: Resolving rule-uncertainty supports acquisition of generalizable memory traces. *Cognition*, 272, 106505. DOI: 10.1016/j.cognition.2026.106505.
- Boag RJ\*, Innes RJ\*, Stevenson N\*, Bahg G, Busemeyer JR, Cox GE, Donkin C, Frank MJ, Hawkins GE, Heathcote A, Hedge C, Lerche V, Lilburn SD, Logan GD, Matzke D, Miletic S, Osth AF, Palmeri TJ, Sederberg PB, Singmann H, Smith PL, Stafford T, Steyvers M, Strickland L, Trueblood JS, Tsetso K, Turner BM, Usher M, van Maanen L, van Ravenzwaag D, Vandekerckhove J, Voss A, **Weichart ER**, Weindel G, White CN, Evans NJ, Brown SD\*, & Forstmann BU\*. (2025). An expert guide to planning experimental tasks for evidence-accumulation modeling. *Advances in Methods and Practices in Psychological Science*, 8(2), 1-41. DOI: 10.1177/25152459251336127.
- Weichart ER**, Unger L, King N, Sloutsky VM, & Turner BM. (2024). “The eyes are the window to the representation:” Linking gaze to memory precision and decision weights in object discrimination tasks. *Psychological Review*, 131(4), 1045-1067. DOI: 10.1037/rev0000475.
- Weichart ER**, Galdo M, Sloutsky VM, & Turner BM. (2022). As within, so without; as above, so below: Common mechanisms can support between- and within-trial category learning dynamics. *Psychological Review*, 129(5), 1104-1143. DOI: 10.1037/rev0000381.
- Weichart ER\***, Evans DG\*, Galdo M, Bahg G, & Turner BM. (2022). Distributed neural systems support flexible attention updating during category learning. *Journal of Cognitive Neuroscience*, 34, 1761-1779. DOI: 10.1162/jocn\_a\_01882.
- Galdo M, **Weichart ER**, Sloutsky VM, & Turner BM. (2022). The quest for simplicity in human learning: Identifying the constraints on attention. *Cognitive Psychology*, 138, 101508. DOI: 10.1016/j.cogpsych.2022.101508.
- Weichart ER**, Darby KP, Fenton AW, Jacques BG, Kirkpatrick RP, Turner BM, & Sederberg PB. (2021). Quantifying mechanisms of cognition with an experiment and modeling ecosystem. *Behavior Research Methods*, 53, 1833-1856. DOI:10.3758/s13428-020-01534-w.
- Weichart ER** & Sederberg PB. (2021). Individual differences in attention allocation during a 2-dimensional inhibitory control task. *Attention, Perception, & Psychophysics*, 83, 676-684. DOI: 10.3758/s13414-020-02160-6. [Published as part of a special issue in memory of Charles “Erik” Eriksen.]
- Weichart ER**, Turner BM, & Sederberg PB. (2020). A model of dynamic, within-trial conflict resolution for decision making. *Psychological Review*, 125(5), 749-777. DOI: 10.1037/rev00000191.
- Weichart ER**, Sederberg PB, Sammartino F, Krishna V, Corrigan JD, & Rezai AR. (2020). Cognitive task performance during titration predicts deep brain stimulation treatment

efficacy: Evidence from a case study. *Frontiers in Psychiatry*, 11(30). DOI: 10.3389/fpsyt.2020.00030.

Palestro JJ, **Weichart ER**, Sederberg PB, & Turner BM. (2018). Some task demands induce collapsing bounds: Evidence from a behavioral analysis. *Psychonomic Bulletin & Review*, 25(4), 1225-1248. DOI: 10.3758/s13423-018-1479-9.

Scharre DW, **Weichart ER**, Nielson DM, Zhang J, Agrawal P, Sederberg PB, Knopp MV, & Rezaei AR. (2018). Deep brain stimulation of frontal lobe networks to treat Alzheimer's Disease. *Journal of Alzheimer's Disease*, 62, 621-633. DOI: 10.3233/JAD-170082. [Press release: <https://wexnermedical.osu.edu/mediaroom/pressreleaselisting/dbs-alzheimers-mmr>]

### **Book Chapters, Proceedings, & Other Publications**

Mathis T, Niese ZA, & **Weichart ER**. (2026). Strategy selection under equal accuracy: Dissociating time, effort, and engagement. *Proceedings of the Annual Meeting of the Cognitive Science Society: "Cognitive Inefficiency."*

Vance J, Darby KP, & **Weichart ER**. (2025). Gaze insights into partially-encoded representations of objects and categories. *Proceedings of the Annual Meeting of the Cognitive Science Society: "Theories of the Past; Theories of the Future."* Available at <https://escholarship.org/uc/item/08h0v799>.

Bardsley E, Francis CS, Sederberg PB, & **Weichart ER**. (2025). Asymmetric effects of aging on between- and within-trial timescales of inhibition. *Proceedings of the Annual Meeting of the Cognitive Science Society: "Theories of the Past; Theories of the Future."* Available at <https://escholarship.org/uc/item/9nj099cb>.

**Weichart ER**. (2024). The Science of Electroencephalography. In: Kirby ED, Glenn MJ, Sandstrom NJ, Williams CL, eds. *Introduction to Behavioral Neuroscience*, 1e. Houston, TX: OpenStax. Available at <https://openstax.org/r/NeuroEEG>.

Unger L, **Weichart ER**, Reardon N, & Sloutsky VM. (2023). Without even trying: How incidental exposure shapes category learning. *Proceedings of the Annual Meeting of the Cognitive Science Society: "Cognition in Context."* Available at <https://escholarship.org/uc/item/6t53399j>.

### **Preprints**

**Weichart ER**, Kirkpatrick RP, & Vance J. Attention as a solution class to optimization under constraint. Available at [osf.io/nhef6\\_v1](https://osf.io/nhef6_v1).

**Weichart ER**, Unger L, Sloutsky VM, & Turner BM. Fixation-gated encoding accounts for attention biases during recognition and categorization. Available at [osf.io/8vxfj](https://osf.io/8vxfj).

## **Honors & Awards**

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| 2019 | Scholar Award, Philanthropic Educational Organization (PEO) International                         |
| 2017 | Travel and Networking Award, Women of Mathematical Psychology                                     |
| 2017 | Student Travel Award, Society for Mathematical Psychology   |
| 2015 | Graduate Student Fellowship, College of Social and Behavioral Sciences, The Ohio State University |
| 2015 | University Fellowship, Graduate Program, The Ohio State University                                |
| 2013 | Honorable Mention, Denman Undergraduate Research Forum, The Ohio State University                 |
| 2012 | Summer Research Fellowship, Undergraduate Research Office, The Ohio State University              |

## **Invited Talks & Symposia**

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| 2026 | “Computationally decoding gaze-based information sampling to support adaptation in dynamic learning environments.” Army Research Institute funding kick-off meeting, Fort Belvoir, VA, USA.   |
| 2025 | “Age-dependent compensatory mechanisms revealed by parameter estimation.” Satellite symposium of the Society for Mathematical Psychology entitled <i>Computational Perspectives on Information Integration</i> , Denver, CO, USA.                 |
| 2025 | “The costs of efficiency: The role of attentional selectivity in the tradeoff between accuracy and knowledge acquisition.” Cognitive Area Friday Forum, New Mexico State University, Las Cruces, NM, USA [Virtual].                               |
| 2024 | “Striving for less: Optimized learning through inhibition and secondary goals.” Cognitive Area Distinguished Speaker Series, University of Virginia, Charlottesville, VA, USA [Virtual].  |
| 2022 | “Interactions among attention, representation, and decision components of category learning.” Striving to Achieve Gender Equality in STEM (SAGES) Postdoctoral Visitation Program, State University of New York (SUNY) – Albany, Albany, NY, USA. |
| 2021 | “Dynamic, within-trial mechanisms of attention and decision making.” Shenhav Lab meeting, Brown University, Providence, RI, USA [Virtual].  |
| 2020 | “Time-variant and evidence-variant mechanisms of decision making.” Cognitive Area Proseminar Series, The Ohio State University, Columbus, OH, USA [Virtual].  |

## **Conference Presentations**

*\* denotes presenter*

*Underlined names denote undergraduate trainees*

*Double underlined names denote graduate mentees*

### **Talks**

National / International Conferences

- Weichart ER\***, Mathis T, & Niese ZA. (2026). Strategy selection under equal accuracy: Dissociating time, effort, and engagement. Talk presented at the Annual Meeting of the Cognitive Science Society, Rio de Janeiro, Brazil [Virtual].
- Weichart ER\***, Bardsley E, Francis CS, & Sederberg PB. (2025). The asymmetric effects of aging on between- and within-trial timescales of inhibition. Talk presented at the Annual Meeting of the Cognitive Science Society, San Francisco, CA, USA.
- Weichart ER\***, Unger L, Sloutsky VM, & Turner BM. (2024). Gaze as a direct input for encoding structures in models of human learning. Talk presented at the Context and Episodic Memory Symposium, Philadelphia, PA, USA.
- Turner BM\*, Sloutsky VM, **Weichart ER**, Unger L, & Ralston R. (2023). Consequences of mature cognitive control systems. Talk presented at the Annual Meeting of the Society for Mathematical Psychology, Amsterdam, Netherlands.
- Weichart ER\***, Unger L, Sloutsky VM, & Turner BM. (2022). Fixation-gated encoding accounts for attention biases during recognition and categorization. Talk presented at the Annual Meeting of the Society for Mathematical Psychology, Toronto, Canada.
- Weichart ER\***, Galdo M, Sloutsky VM, & Turner BM. (2021). Common mechanisms support between- and within-trial learning dynamics. Talk presented at the Context and Episodic Memory Symposium, Philadelphia, PA, USA.
- Weichart ER\***, Galdo M, Sloutsky VM, & Turner BM. (2020). Common mechanisms support between- and within-trial learning dynamics. Talk presented at the Annual Meeting of the Society for Mathematical Psychology, [Virtual].
- Weichart ER\***, Turner BM, & Sederberg PB. (2018). Intra-trial conflict during perceptual decisions. Talk presented at the Annual Meeting of the Society for Mathematical Psychology, Madison, WI, USA.
- Weichart ER\***, Turner BM, & Sederberg PB. (2017). A dynamic conflict-based approach for intra-trial decision making. Talk presented at the Annual Meeting of the Society for Mathematical Psychology, Warwick, UK.
- Palestro JJ\*, **Weichart ER**, Sederberg PB, & Turner BM. (2017). Revisiting the decision boundary debate. Talk presented at the Annual Meeting of the Society for Mathematical Psychology, Warwick, UK
- Krishna V\*, Bigler AJ, Sammartino F, **Weichart ER**, Shaikhouni A, Agrawal P, Corrigan JC, Bogner J, Sederberg PB, & Rezai AR. (2017). Acute clinical effects of stimulation in a patient with nucleus accumbens DBS: Insights from a structural connectivity study. Talk presented at the Annual Meeting of the American Association of Neurological Surgeons, Los Angeles, CA, USA.

Scharre DW\*, **Weichart ER**, Nielson DM, Zhang J, Agrawal P, Sederberg PB, Knopp MV, & Rezai AR. (2016). Deep brain stimulation of frontal lobe networks to treat Alzheimer's Disease. Talk presented at the Annual Meeting of the American Academy of Neurology, Vancouver, BC, Canada.

### **Posters, Flash Talks, & Data Blitzes**

#### National / International Conferences

**Weichart ER\***. (2026). Attentional updating during learning is mediated by age-related changes in memory precision. Poster presented at the Context and Episodic Memory Symposium, Philadelphia, PA, USA.

**Weichart ER\*** & Darby KP. (2025). Gaze reveals encoding constraints on bounded rationality during categorization. Poster presented at the Annual Meeting of the Psychonomic Society, Denver, CO, USA.

Vance J\*, Darby KP, & **Weichart ER**. (2025). Gaze insights into partially-encoded representations of objects and categories. Poster presented at the Annual Meeting of the Cognitive Science Society, San Francisco, CA, USA [Virtual].

Unger L\*, **Weichart ER**, & Sloutsky VM. (2024). Without even trying: How incidental exposure shapes category learning. Poster presented at the Annual Meeting of the Experimental Psychology Society, York, UK.

Reardon N\*, Unger L, **Weichart ER**, & Sloutsky VM. (2023). Incidental exposure optimizes attention to features that are relevant to category membership. Data blitz presented at the Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA, USA.

Unger L\*, **Weichart ER**, Reardon N, & Sloutsky VM. (2023). Without even trying: How incidental exposure shapes category learning. Poster presented at the Annual Meeting of the Cognitive Science Society, Sydney, Australia.

King N\*, Turner BM, **Weichart ER**, & Sloutsky VM. (2023). Learning in the context of partial information. Poster presented at the Annual Meeting of the Society for Mathematical Psychology, Amsterdam, Netherlands.

**Weichart ER\***, Turner BM, & Sederberg PB. (2018). Latent input joint model analysis of intra-trial conflict during perceptual decisions. Poster presented at the Annual Meeting of the Psychonomic Society, New Orleans, LA, USA.

Kirkpatrick RP\*, Fenton AW, **Weichart ER**, Darby KP, Jacques BG, Turner BM, & Sederberg PB. (2018). Rapid assessment of cognitive states with an experiment and modeling ecosystem. Poster presented at the Annual Meeting of the Psychonomic Society, New Orleans, LA, USA.

**Weichart ER\***, Turner BM, & Sederberg PB. (2018). Latent input joint model analysis of intratrial conflict during perceptual decisions. Poster presented at the Global Brain Health and Performance Summit, Columbus, OH, USA.

**Weichart ER\***, Turner BM, & Sederberg PB. (2017). A model-based method for tracking cognitive ability through time. Poster presented at the Global Brain Health and Performance Summit, Columbus, OH, USA.

**Weichart ER\***, Bigler AJ, Man VY, Cunningham WA, & Sederberg PB. (2016). Testing the effects of context repetition for valence and items. Poster presented at the Context and Episodic Memory Symposium, Philadelphia, PA, USA.

**Weichart ER\***, Nielson DM, & Sederberg PB. (2015). Inter-subject correlation in theta and gamma spectral bands predicts memory for details of scientific talks. Poster presented at the Annual Meeting of the Society for Neuroscience, Chicago, IL, USA.

**Weichart ER\***, Nielson DM, & Sederberg PB. (2015). Inter-subject correlation in theta and gamma spectral bands predicts memory for details of scientific talks. Poster presented at the Context and Episodic Memory Symposium, Philadelphia, PA, USA.

#### Regional Conferences

**Weichart ER\***, Niese ZA, & Ayuumah S. (2026). How students balance time, effort, and engagement in the age of AI. Poster presented at the Annual Meeting of the Rocky Mountain Psychological Association, Boise, ID, USA.

Reardon N\*, Unger L, **Weichart ER**, & Sloutsky VM. (2023). What is learned during incidental exposure to categories? Poster presented at the Midwest Cognitive Science Conference, Grand Rapids, MI, USA.

#### Local / University Conferences

Schoor E\*, **Weichart ER**, Woodson L, Greene A, & Sederberg P. (2026). Separating global and local control deficits in ADHD using a gamified flanker paradigm. Poster presented at the L. Starling Reid Undergraduate Psychology Research Conference, Charlottesville, VA, USA.

Mathis T\* & **Weichart ER**. (2026). Balancing time, effort, and improvement: Implications for intervention and rehabilitation. Poster presented at the Utah State University Spring Student Research Symposium, Logan, UT, USA.

Bardsley E\* & **Weichart ER**. (2024). A novel approach to understanding cognitive health in aging and disease. Poster presented at the Utah State University Fall Student Research Symposium, Logan, UT, USA.

**Weichart ER\*** & Sederberg PB. (2017). Cognitive task performance during titration predicts DBS treatment efficacy. Flash talk presented at the University of Virginia Intra-Departmental Research Symposium, Charlottesville, VA, USA.

**Weichart ER\*** & Sederberg PB. (2013). Tracking performance at the crossroads of perception and memory. Poster presented at the Richard J. and Martha D. Denman Undergraduate Research Forum, Columbus, OH, USA. [Awarded Honorable Mention in Psychology.]

### **Professional Affiliations**

Member	Society for Mathematical Psychology
Member	Psychonomic Society
Member	Cognitive Science Society

### **Professional Development**

2024-2025	Completion, Hanover Research Grant Academy, College of Education and Human Services, Utah State University
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## **Teaching**

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### **Courses Taught**

#### **Utah State University, Logan, UT, USA**

##### **Course Instructor**

Spring 2026	PSYC 4420: Cognitive Psychology, Research Scholarship & Creative Inquiry
Spring 2026	PSYC 1010: General Psychology
Fall 2025	PSYC 4420: Cognitive Psychology, Research Scholarship & Creative Inquiry
Fall 2025	PSYC 1010: General Psychology
Spring 2025	PSYC 4420: Cognitive Psychology
Spring 2025	PSYC 1010: General Psychology
Fall 2024	PSYC 1010: General Psychology
Spring 2024	PSYC 4420: Cognitive Psychology
Fall 2023	PSYC 1010: General Psychology

#### **The Ohio State University, Columbus, OH, USA**

##### **Lab Instructor**

Spring 2017	PSY 5621: Introduction to Electroencephalography
Fall 2016	PSY 5621: Introduction to Electroencephalography
Spring 2016	PSY 5621: Introduction to Electroencephalography
Fall 2015	PSY 5621: Introduction to Electroencephalography

**Course Assistant**

Fall 2013 | PSY 100: Introductory Psychology

**Duke Talent Identification Program (Duke TIP), Durham, NC, USA**

**Teaching Assistant**

Summer 2013 | Clinical Psychology Institute

**Honors & Awards**

2025 | Nominee, Teacher of the Year, Department of Psychology, Utah State University

**Invited Talks**

2025 | “Pedagogical Primer: The cognitive science of learning.” eLearnX, Empowering Teaching Excellence, Utah State University, Logan, UT, USA.

2024 | “Pedagogical Primer: The cognitive science of learning.” eLearnX, Empowering Teaching Excellence, Utah State University, Logan, UT, USA.

**Graduate Student Mentorship**

**Graduate Research Assistants, Quantified Cognition Lab**

2025 – 2026 | Sandys Ayuumah

**Graduate Teaching Assistants**

Spring 2026	Stephanie Nettleton	PSYC 1010
Spring 2026	Ashley Petersen	PSYC 4420 RSCI
Fall 2025	Carson Miller	PSYC 1010
Fall 2025	Ashley Petersen	PSYC 4420 RSCI
Spring 2025	Carson Miller	PSYC 1010
Spring 2025	Kimberly Webb-Zimmerman	PSYC 4420
Fall 2024	Bethany Moos	PSYC 1010
Spring 2024	Kimberly Webb-Zimmerman	PSYC 4420
Fall 2023	Ariel Snowden	PSYC 1010

**Student Committees**

		<b>Committee Type</b>	<b>Role</b>
2026	Mati Avellaneda	Dissertation Committee	Member
2025	Allison Hancock	Dissertation Committee	Member

**Undergraduate Student Mentorship**

**Undergraduate Research Assistants, Quantified Cognition Lab**

*Bullet points indicate research products and recognition from work in the Quantified Cognition Lab; additional details of each are provided in the Research section*

2026 -	Talmage Waters, Psychology Major
2025 -	Taylor Mathis, Nutrition Science Major <ul style="list-style-type: none"> <li>• First author on a proceedings paper</li> <li>• Presented a poster at a student research conference</li> </ul>
2025 -	Jared Vance, Psychology Major <ul style="list-style-type: none"> <li>• Awarded Undergraduate Researcher of the Year, 2025</li> <li>• Co-authored a journal article</li> <li>• First author on a proceedings paper</li> <li>• Presented a poster at a national research conference</li> <li>• Submitted an undergraduate research grant proposal</li> </ul>
2025 - 2026	Mylee Strong, Psychology Major
2025	Isabelle Lloyd, Psychology Major
2025	Breanna Raven, Kinesiology Major
2024 - 2025	Ethan Bardsley, Biology Major <ul style="list-style-type: none"> <li>• First author on a proceedings paper</li> <li>• Presented a poster at a student research conference</li> </ul>
2024	Hailey Johnson, Psychology Major
2024	Cole Francis, Electrical Engineering Major <ul style="list-style-type: none"> <li>• Co-authored a journal article</li> <li>• Co-authored a proceedings paper</li> </ul>

**Mentored “Honors in Practice” Experiences**

Summer 2026	Talmage Walters, “Introduction to programming in Python”
Spring 2026	Talmage Walters, “Eye-tracking research in the Quantified Cognition Lab”

**Undergraduate Teaching Fellows**

Fall 2026	Craig Beecher, PSYC 4420 RSCI
Spring 2026	Emily Kuehnl, PSYC 4420 RSCI

**Supplemental Instruction Leaders / Peer Assisted Study Session Leaders**

Spring 2026	Megan Keller, PSYC 1010
Fall 2025	Megan Keller, PSYC 1010
Spring 2025	Dallin Condie, PSYC 1010

**Mentored Research Products from RSCI Course**

*The students noted below represent a subset who voluntarily disseminated findings from their class projects; research products were not graded or required as part of PSYC 4420 RSCI*

Underlined names denote undergraduate mentees

## **Journal Articles**

Published in *Curiosity: The Undergraduate Research Journal of Utah State University*.

Kuehnl E, Harris J, Leishman T, Herrada A, Fraser M, & Weichart ER. (2026). The impact of phonological and visual processing on memory retention.

Roth P, Winder D, Thatcher C, Lynn M, & Weichart ER. (2026). Depth of processing re-examined: Semantic superiority persists despite increased lexical task demands.

## **Posters**

Presented at Student Research Symposia, Utah State University, Logan, UT, USA

\* denotes presenter(s)

Wachtel K\* & Weichart ER. (2026). Loneliness negatively affects memory encoding in college-age subjects.

Thorkelson J\* & Weichart ER. (2026). Associations with extreme situations enhance encoding.

Gill A\*, Liddard A\*, Pacheco Martinez G\*, Peery E\*, & Weichart ER. (2026). Emotionally charged stimuli are associated with improved recognition.

Andros C\*, Gordon E\*, Moyes A\*, McManus R\*, & Weichart ER. (2026). Effects of semantic vs. visual stimuli on memory recognition.

Bird D\*, Duchesneau B\*, & Weichart ER. (2025). Farm vs. factory: Which contextual judgements lead to better memory retention?

Swartz J\*, Waddoups L\*, & Weichart ER. (2025). Learning the context and meaning of a word leads to better recognition.

Roth P\*, Winder D\*, Thatcher C\*, & Weichart ER. (2025). Depth of processing re-examined: Semantic superiority persists despite increased lexical task demands.

Fraser M\*, Harris J\*, Herrada A\*, Kuehnl E\*, Leishman T\*, & Weichart ER. (2025). Memory durability associated with phonological processing.

Clements A\*, Sandberg K\*, Thornock W\*, Waddell L\*, Strong B\*, & Weichart ER. (2025). The effect of mental visualization on memory retention.

## **Professional Development**

2026 | Micro-credential on Student Mentorship, Center for Empowering Teaching Excellence Professional Development Pathway, Utah State University

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| 2024 | Completion, Center for the Improvement in Mentored Experiences in Research (CIMER) Training, Office of the Provost, Utah State University |
| 2024 | Completion, Raising a Resilient Scientist Training, Office of the Director, National Institutes of Health (NIH)                           |

## **Service**

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### **Editorial Positions**

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| 2026 - 2027 | Editorial Fellow, <i>Psychological Review</i> , Mentor: Bernhard Hommel, Ph.D. |
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### **Reviewing**

#### **Grant panel reviewer**

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| 2026 | National Science Foundation: Directorate for Social, Behavioral, and Economic Sciences |
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#### **Ad hoc referee - Grants**

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| 2025 | National Science Foundation: Directorate for Social, Behavioral, and Economic Sciences |
| 2025 | Alzheimer's Association: Research Fellowship for All Program                           |

#### **Ad hoc referee - Journals**

*Attention, Perception, & Psychophysics*  
*Cognition*  
*Cognitive Psychology*  
*Cognitive Science*  
*Communications Psychology*  
*European Journal of Psychology of Education*  
*Discover Neuroscience*  
*Imaging Neuroscience*  
*Journal of Mathematical Psychology*  
*Journal of Memory & Language*  
*Psychological Review*  
*Psychonomic Bulletin & Review*  
*Scientific Reports*  
*Advances in Methods and Practices in Psychological Science*

### **Other Extramural Service**

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| 2025 | Symposium Chair, Annual Meeting of the Cognitive Science Society, San Francisco, CA, USA |
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### **University Service**

- 2024 - Member, Recognition and Awards Committee, Department of Psychology,  
Utah State University
- 2023 - Member, Brain & Cognition Specialization Steering Committee, Department  
of Psychology, Utah State University
- Spring 2026 Presentation Evaluator, Student Research Symposium, Utah State University
- Fall 2025 Presentation Evaluator, Student Research Symposium, Utah State University
- Spring 2025 Presentation Evaluator, Student Research Symposium, Utah State University
- Spring 2024 Presentation Evaluator, Student Research Symposium, Utah State University
- 2025 Member, Search Committee, Open Rank Health Psychology, Utah State  
University
- 2021 Mentor, Advancing Diversity in Neuroimaging Research Initiative, Center for  
Cognitive & Brain Sciences, The Ohio State University
- 2016 Co-organizer, Center for the Cognitive & Brain Sciences (CCBS)  
Undergraduate Summer Institute, The Ohio State University
- 2015 Co-organizer, Center for the Cognitive & Brain Sciences (CCBS)  
Undergraduate Summer Institute, The Ohio State University