

# MICHELLE M. RAMEY, PH.D.

## CURRICULUM VITAE

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### Contact Information

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University of Arkansas  
Fayetteville, AR 72701

### Research Interests

My work focuses on understanding episodic memory by investigating its interactions with other cognitive processes—primarily visual attention and semantic knowledge—in general and in aging.

### Academic Positions

2024 – Present      Assistant Professor of Cognitive Psychology at the Department of Psychological Science, University of Arkansas, Fayetteville

2023 – 2024      NSF SPRF Postdoctoral fellow at the Department of Psychological Science, University of Arkansas, Fayetteville

2021 – 2023      Postdoctoral researcher at the Department of Psychological Science, University of Arkansas, Fayetteville

### Education

| <u>Degree</u>       | <u>Year</u> | <u>Institution</u>                 |
|---------------------|-------------|------------------------------------|
| Ph.D. in Psychology | 2021        | University of California, Davis    |
| M.A. in Psychology  | 2018        | University of California, Davis    |
| B.A. in Psychology  | 2016        | University of California, Berkeley |

### Extramural Grants

#### Awarded

National Science Foundation      9/01/23 – 9/01/25  
SPRF: *Taking a Computational Approach to Understanding Schema-Memory Interactions*  
Role: PI  
Amount awarded: \$160,000

National Institutes of Health – National Institute on Aging (NIA)      9/30/23 – 9/30/26  
F32: *How prior knowledge impacts episodic memory deficits in aging*  
Role: PI  
Impact Score: 16  
Amount awarded: \$210,372

## Unfunded Grants Sought

National Science Foundation

9/01/22 – 8/31/24

SPRF: *Determining the role of creative processes in familiarity-based associative memory*

Role: PI

Score: "Competitive"

## Publications

### Published Manuscripts

**Ramey, M. M.** & Zabelina, D. L. (In press). Using visual imagery to manipulate recognition memory for faces whose appearance has changed. *Cognitive Research: Principles and Implications*

Impact factor (2024): 3.1

**Ramey, M. M.**, Henderson, J. M., & Yonelinas, A. P. (2025). Episodic memory and semantic knowledge interact to guide eye movements during visual search: Distinct effects of conscious and unconscious memory. *Psychonomic Bulletin & Review*,

<https://doi.org/10.3758/s13423-025-02686-6>

Impact factor (2023): 3.2

**Ramey, M. M.**, Yonelinas, A. P., & Henderson, J. M. (2024). How schema knowledge influences memory in older adults: Filling in the gaps, or leading memory astray? *Cognition*, 250, 105826, <https://doi.org/10.1016/j.cognition.2024.105826>

Impact factor (2022): 3.4

**Ramey, M. M.** & Zabelina, D. L. (2024). Divergent thinking modulates interactions between episodic memory and schema knowledge: Controlled and spontaneous episodic retrieval processes. *Memory & Cognition*, 1-17, <https://doi.org/10.3758/s13421-023-01493-5>

Impact factor (2022): 2.4

**Ramey, M. M.**, Henderson, J. M., Yonelinas, A. P. (2022). Eye movements dissociate between perceiving, sensing and unconscious change detection in scenes. *Psychonomic Bulletin & Review*, 29, 2122-2132. <https://doi.org/10.3758/s13423-022-02122-z>

Impact factor (2021): 5.4

**Ramey, M. M.**, Henderson, J. M., Yonelinas, A. P. (2022). Episodic memory processes modulate how schema knowledge is used in spatial memory decisions. *Cognition*, 225, 105111.

<https://doi.org/10.1016/j.cognition.2022.105111>

Impact factor (2021): 4.0

- Yonelinas, A. P., **Ramey, M. M.**, Riddell, C. (2022). The role of recollection and familiarity in recognition memory: A selective review. In M. J. Kahana & A. D. Wagner (Eds.), *The handbook of human memory: Foundations and applications*. Oxford University Press.
- Ramey, M. M.**, Yonelinas, A. P., Henderson, J. M. (2020). Why do we retrace our visual steps? Semantic and episodic memory in gaze reinstatement. *Learning & Memory*, 27(7), 275-283. <https://doi.org/10.1101/lm.051227.119>  
Impact factor (2020): 2.5
- Ramey, M. M.**, Shields, G. S., Yonelinas, A. P. (2020). Markers of a plant-based diet relate to memory and executive function in older adults. *Nutritional Neuroscience*, 25(2), 276-285. <https://doi.org/10.1080/1028415X.2020.1751506>  
Impact factor (2020): 5.0
- Ramey, M. M.**, Henderson, J. M., Yonelinas, A. P. (2020). The spatial distribution of attention predicts familiarity strength during encoding and retrieval. *Journal of Experimental Psychology: General*, 149(11), 2046-2062. <https://doi.org/10.1037/xge0000758>  
Impact factor (2020): 4.9
- Ramey, M. M.**, Yonelinas, A. P., & Henderson, J. M. (2019). Conscious and unconscious memory differentially impact attention: Eye movements, visual search, and recognition processes. *Cognition*, 185, 71-82. <https://doi.org/10.1016/j.cognition.2019.01.007>  
Impact factor (2019): 3.3
- Shields, G. S., Rivers, A. M., **Ramey, M. M.**, Trainor, B. C., & Yonelinas, A. P. (2019). Mild acute stress improves response speed without impairing accuracy or interference control in two selective attention tasks: Implications for theories of stress and cognition. *Psychoneuroendocrinology*, 108, 78-86. <https://doi.org/10.1016/j.psyneuen.2019.06.001>  
Impact factor (2019): 4.7
- Shields, G. S., **Ramey, M. M.**, Slavich, G. M., & Yonelinas, A. P. (2019). Determining the mechanisms through which recent life stress predicts working memory impairments: Precision or capacity? *Stress*, 22, 280-285. <https://doi.org/10.1080/10253890.2018.1556635>  
Impact factor (2019): 3.1

## Awards and Honors

|             |  |
|-------------|--|
| 2025        | University of Arkansas Honors College Equipment Grant (\$5000) |
| 2025        | University of Arkansas Honors College Research Grant (\$5500)  |
| 2025        | Fulbright Summer Research Stipend (\$5000)                     |
| 2021        | Psychonomic Society Graduate Conference Award (\$1000)         |
| 2021        | Dissertation Fellowship award (\$13,755)                       |
| 2016        | Graduated <i>summa cum laude</i>                               |
| 2012 – 2016 | Regents' and Chancellor's scholarship                          |
| 2012 – 2016 | Dean's list  |

## Selected Presentations

### Invited Talks

**Ramey, M. M.** (2025, April). *The making of a memory: How your brain reconstructs the past.* Butterfield Trails Village, Fayetteville, Arkansas.

**Ramey, M. M.** (2025, February). *How schemas and episodic memory interact during retrieval: Bayesian interactions in memory decisions and attentional guidance.* Tompary Lab, Drexel University.

**Ramey, M. M.** (2023, February). *How schemas and memory interact to influence memory decisions in older adults.* Psychology department, University of Missouri. (Coauthors on presented work: John Henderson, Andrew Yonelinas, Grant Shields)

**Ramey, M. M.** (2023, January). *How schemas influence our memories.* Student Neuroscience Organization, University of Arkansas. (Coauthors on presented work: Andrew Yonelinas, John Henderson, Grant Shields)

### Conference Presentations

**Ramey, M. M.** & Lampinen, J. M. (2025, November). *How prior knowledge biases memory: Eye movements reveal accurate episodic memory traces even when responses are schema-biased* Talk at the annual meeting of the Psychonomic Society, Denver, CO.

**Ramey, M. M.,** Shields, G. S., & Lampinen, J. L. (2024, November). *The role of schema precision in schema-relevant episodic memory: Do more precise schemas lead to more biased memories?* Talk at the annual meeting of the Psychonomic Society, New York, New York.

**Ramey, M. M.** & Shields, G. S. (2023, October). *Do schemas and episodic memory cooperate or compete to influence memory decisions? A leaky competing accumulator modeling approach.* Poster presented at the annual meeting of ARMADILLO (Southern conference for cognitive psychology).

**Ramey, M. M.** & Shields, G. S. (2022, November). *Understanding the underlying dynamics of schema-memory interactions using computational modeling.* Poster presented at the annual meeting of the Psychonomic Society.

**Ramey, M. M.** & Zabelina, D. L. (2022, May). *Creative people use memory differently: Divergent thinking modulates how episodic memory is combined with semantic knowledge.* Poster presented at the annual meeting of the Society for the Neuroscience of Creativity.

**Ramey, M. M.** & Zabelina, D. L. (2022, April). *Divergent thinking modulates how episodic memory is combined with semantic knowledge.* Poster presented at the annual meeting of the Cognitive Neuroscience Society.

- Ramey, M. M.,** Henderson, J. M., & Yonelinas, A. P. (2021, November). *Schema knowledge and episodic memory trade off to influence spatial memory*. Poster presented at the annual meeting of the Psychonomic Society.
- Ramey, M. M.,** Henderson, J. M., & Yonelinas, A. P. (2020, November). *Distinct patterns of visual sampling in perceiving and sensing-based change detection*. Talk at the annual Bay Area Memory Meeting, Palo Alto, CA.
- Ramey, M. M.,** Shields, G. S., & Yonelinas, A. P. (2018, May). *Dietary Patterns in the Wild: Fiber and Fat Consumption Relates to Memory and Executive Function in Older Adults*. Poster presented at the annual meeting of the Association for Psychological Science, San Francisco, CA.
- Ramey, M. M.,** Shields, G. S., & Yonelinas, A. P. (2018, May). *Don't forget your vegetables: Markers of plant-based diets predict memory and executive function in older adults*. Poster presented at the Annual Psychology Conference at the University of California, Davis, Davis, CA. Won 2<sup>nd</sup> place in the presentation competition.
- Ramey, M. M.,** Yonelinas, A. P., & Henderson, J. M. (2017, November). *Contextual cueing and memory for scenes: Eye movements dissociate conscious from unconscious memory*. Poster presented at the annual meeting of the Psychonomic Society, Vancouver, British Columbia.
- Ramey, M. M.,** Yonelinas, A. P., & Henderson, J. M. (2017, November). *Conscious and unconscious memory differentially alter eye movements: Contextual cueing with real world scenes*. Poster presented at the annual meeting of the Object Perception, Attention, & Memory conference, Vancouver, British Columbia.
- Ramey, M. M.,** Yonelinas, A. P., & Henderson, J. M. (2017, August). *Contextual cueing and memory for scenes: Eye movements dissociate conscious from unconscious memory*. Talk at the annual meeting of the Cognitive Science Association for Interdisciplinary Learning, Hood River, OR.
- Ramey, M.M.,** Sazma, M.A., & Yonelinas, A.P. (2017, June). *The relationship between caloric intake and stress response*. Poster presented at the Mind and Brain Poster Day at the Center for Mind and Brain, Davis, CA.
- Ramey, M. M.,** Sazma, M. A., & Yonelinas, A. P. (2017, May). *The relationship between caloric intake and stress response*. Poster presented at the psychology departmental conference at the University of California, Davis, Davis, CA.
- Ramey, M. M. &** Jacobs, L. F. (2016, May). *Personality in coevolved species: Olfactory tracking by search dogs and their human handlers*. Poster presented at the psychology departmental poster session at the University of California, Berkeley, Berkeley, CA.

## Teaching and Mentoring

### Courses Taught

Perception (Fall 2024, Fall 2025)

Cognitive Psychology (Spring 2025, Fall 2025)

## Invited Lectures

Research Practicum guest lecture: "How to write competitive grants" (Spring 2025)

## Student Mentoring

Brody Terry, PhD Student (Fall 2024 – Present)

Sarah Waller, Honors Thesis Student (Spring 2025 – Present)

## Professional Service

Editorial board member:

*Cognition* (June 2025 – Present)

*Ad hoc* reviewer for journal articles:

*Behavior Research Methods*

*Behavioral Brain Research*

*Cognition*

*Cognitive Processing*

*Developmental Psychology*

*Journal of Experimental Psychology: General*

*Journal of Experimental Psychology: Learning, Memory, & Cognition*

*Memory*

*Memory & Cognition*

*Nutrients*

*PeerJ*

*Psychiatry Research*

*Psychology, Crime, & Law*

*Psychological Research*

*Scientific Reports*

*Trends in Cognitive Sciences*

*Ad hoc* reviewer for grant submissions:

NSF (Perception, Action, and Cognition; PAC)

Israel Science Foundation

## Skills

Programming: R, MATLAB, Python, Julia, jsPsych (JavaScript), HTML & CSS

GUI Software: SR Research ExperimentBuilder, Adobe Photoshop, Qualtrics (and embedding JavaScript within Qualtrics)

Analytic Expertise: Eyetracking analysis, computational cognitive modeling, cluster analysis, multilevel models, receiver operating characteristics, dimensionality reduction, classification using neural networks and random forest models

Misc. Skills: Eyetracking, EEG, scene stimuli creation (using MATLAB and Photoshop) and norming, ELISA