

Candace E. Peacock

EDUCATION

- 1/2019 – Present University of California, Davis
Doctoral Candidate in Psychology (area: Perception, Cognition, and Cognitive Neuroscience)
- 9/2016 – 12/2018 University of California, Davis
Master of Arts in Psychology (area: Perception, Cognition, and Cognitive Neuroscience)
- 8/2012 – 5/2016 University of Nevada, Reno
B.S. Neuroscience - In Curso Honorum Cum Laude

RESEARCH EXPERIENCE

- 9/2017 – Present Graduate Research Assistant in the Visual Cognition Laboratory
PI: John M. Henderson, Ph.D.
- 8/2020 – 4/2021 Facebook Reality Labs – Research Intern (area: Computational Cognitive Science and AI)
Managers: Tanya Jonker, Ph.D., Ting Zhang, Ph.D., Ben Lafreniere, Ph.D.
- 8/2016 – 9/2017 Graduate Research Assistant in the Human Spatial Cognition Laboratory
PI: Arne D. Ekstrom, Ph.D.
- 8/2013 – 7/2016 Undergraduate Research Assistant in the Memory and Brain Laboratory
PI: Marian E. Berryhill, Ph.D.

PUBLICATIONS

Henderson, J.M., Hayes, T.R., **Peacock, C.E.**, & Rehrig, G. (2021). Meaning maps capture the semantic density of local scene features in scenes: A reply to Pedziwiatr, Kummerer, Wallis, Bethge, & Teufel (2021). *Cognition*.

David-John, B., **Peacock, C.E.**, Zhang, T., Murdison, T. S., & Jonker, T.R. (2021). Towards gaze-based prediction of the intent to interact in virtual reality. *In Proceedings of the 13th ACM Symposium on Eye Tracking Research & Applications. Association for Computing Machinery*.

Peacock, C.E., David-John, B., Zhang, T., Murdison, T. S., Boring, M., & Jonker, T.R. (2021). Gaze signatures decode the onset of working memory encoding. *In Proceedings of the 2021 CHI Workshop on Eye Movements in Cognitive State (CHI '21). Association for Computing Machinery*.

Peacock, C.E., Hayes, T.R., & Henderson, J.M. (2020). Center bias does not account for the advantage of meaning over image salience in attentional guidance during scene viewing. *Frontiers in Psychology: Cognition*.

Cronin, D.A., **Peacock, C.E.**, & Henderson, J.M. (2020). Verbal WM and visual WM affect scene viewing. *Attention, Perception, & Psychophysics*.

Rehrig, G.L. **Peacock, C.E.**, Hayes, T.R., Henderson, J.M., Ferreira, F. (2020). Where the action could be: Speakers look at meaningful scene regions more than graspable objects when describing possible actions. *JEP:LMC*

Peacock, C.E., Hayes, T.R., & Henderson, J.M. (2019). The role of meaning in attentional guidance during free viewing of real-world scenes. *Acta Psychologica*.
<https://doi.org/10.1016/j.actpsy.2019.102889>

Henderson, J.M., Hayes, T.R., **Peacock, C.E.**, & Rehrig, G.L. (2019). Meaning and attentional guidance in scenes: A review of the meaning map approach. *Vision*. doi:10.3390/vision3020019

Peacock, C.E., Hayes, T.R., & Henderson, J.M. (2019). Meaning guides attention during active scene viewing even when it is irrelevant. *Attention, Perception, & Psychophysics*. doi:10.3758/s13414-018-1607-7

Peacock, C.E. & Ekstrom, A.D. (2019). Verbal cues flexibly transform spatial representations in human navigation. *Memory*. doi:10.1080/09658211.2018.1520890

Killebrew, K., Gurariy, G., **Peacock, C.E.**, Berryhill, M.E., & Caplovitz, G. (2018). Electrophysiological correlates of encoding processes in a full report visual working memory paradigm. *Cognitive, Affective, & Behavioral Neuroscience*, 18(2), 353-365. doi:<https://doi.org/10.3758/s13415-018-0574-8>

Peacock, C.E. & Gözenman, F. (2018). Encoding-stage adaptation effects: Long-term memory. *Perception*, 47(2), 216-224. doi:<https://doi.org/10.1177/0301006617739533>

MANUSCRIPTS UNDER REVIEW OR IN REVISION

Peacock, C.E., Singh, P., Hayes, T.R., & Henderson, J.M. (Under Review). Searching for meaning: local scene semantics guide attention during natural visual search in scenes.

Peacock, C.E., Cronin, D.A., Hayes, T.R., & Henderson, J.M. (Under Review). Surfaces and Meaning Combine to Predict Fixations During Visual Search.

MANUSCRIPTS IN PREPARATION

Peacock, C.E., Hall, E.H., Hayes, T.R., & Henderson, J.M. (In Prep). Objects and meaning combine to predict attention during scene viewing.

Peacock, C.E., Hayes, T.R., & Henderson, J.M. (In Prep). Fixations are directed to meaningful regions that are object dense but not feature dense.

CONFERENCE PRESENTATIONS

Talk presentations:

Peacock, C.E., David-John, B., Zhang, T., Murdison, T. S., Boring, M., & Jonker, T.R. (2021). Gaze signatures decode the onset of working memory encoding. CHI Workshop on Eye Movements in Cognitive State (CHI '21). Japan, 5/2021

Peacock, C.E., Singh, P., Hayes, T.R., & Henderson, J.M. Meaning guides attention during visual search. Center for Vision Science Symposium, Davis, CA, 1/2020

Peacock, C.E., Hayes, T.R., & Henderson, J.M. Meaning guides attention during active scene viewing even when it is irrelevant. OPAM/Psychonomics, New Orleans, LA, 11/2018

Peacock, C.E. & Ekstrom, A.D. Investigating individual differences with respect to language in human spatial navigation. UCSB Center for Spatial Studies Specialist Meeting, Santa Barbara, CA, 12/2016

Poster presentations:

Cronin, D.A., **Peacock, C.E.**, & Henderson, J.M. Verbal WM and visual WM affect scene viewing. Psychonomics, Austin, TX, 11/2020

Rehrig, G.L. **Peacock, C.E.**, Hayes, T.R., Henderson, J.M., Ferreira, F. Where the action could be: Speakers look at meaningful scene regions more than graspable objects when describing possible actions. VSS, Virtual Conference

Rehrig, G.L. **Peacock, C.E.**, Hayes, T.R., Henderson, J.M., Ferreira, F. Where the action could be: Speakers look at meaningful scene regions more than graspable objects when describing possible actions. CUNY, Virtual Conference

Peacock, C.E., Hayes, T., & Henderson, J.M. Meaning guides attention during free viewing of real-world scenes. OPAM/Psychonomics, Montreal, CA, 11/2019

Peacock, C.P., Ekstrom, A.D. Verbal cues flexibly transform spatial representations in human spatial navigation. Society for Neuroscience, Washington, DC, 11/2017

Peacock, C.P., Ekstrom, A.D. The role of top-down cues and bottom-up features during human spatial navigation. UC Davis Psychology Conference, Davis, CA, 5/2017

Killebrew, K.W., **Peacock, C.P.**, Caplovitz, G., Berryhill, M.E. Full Report: Frequency Tagging in Working Memory. Vision Sciences Society 17th Meeting, Orlando, FL, 5/2017

Peacock, C.E., Killebrew, K.W., Berryhill, M.E., Caplovitz, G. Full Report: Exploring failures in working memory encoding: a steady-state visual evoked potential study. Nevada Undergraduate Research Symposium, Reno, NV, 4/2016

Peacock, C.E., Gozenman, F., & Berryhill, M.E. Role of visual adaptation on face perception in long-term memory. Psi Chi Research Fair, awarded 1st place, Reno, NV, 5/2015

Peacock, C.E., Gozenman, F., & Berryhill, M.E. Role of visual adaptation on face perception in long-term memory. Nevada Undergraduate Research Symposium, Reno, NV, 4/2015

TECHNICAL SKILLS

Training and experience conducting experiments in:

Virtual Reality (VR)	Unity, HTC Vive Pro Eye
Electroencephalography	HD-EEG, Geodesic EEG System (GES 300), HydroCel GSN 256 (Electrical Geodesics, Inc.), frequency tagging
Neurostimulation	Transcranial direct current stimulation (tDCS), high-definition transcranial direct current stimulation (HD-tDCS)

Functional neuroimaging	Operator training in 3T Siemens TIM Trio MRI System and the Siemens 64-Channel 3T MRI System (Siemens Healthcare), Functional near-infrared spectroscopy (fNIRS)
Eye-tracking	SensoMotoric Instrument, SR Research EyeLink 1000+, Experiment Builder, HTC Vive Pro Eye, 3d eye-tracking methods
Programming Languages	Python, R, Matlab (Psychtoolbox), working knowledge of C# & JavaScript/Unity Script, SQL
Human behavioral methods	E-Prime, Experiment Builder
Survey methods	Qualtrics
Other skills	JASP, SPSS, Adobe Photoshop, Adobe Illustrator, SPSS, Microsoft Office, EndNote, WordPress, Gimp

GRANT SUPPORT and FELLOWSHIPS

07/2020	UCD Library Open Access Publishing Grant, \$1000
9/2019 – 8/2020	NIH T32 Vision Sciences Training Grant, \$40,000
7/2019	Women in Neuroscience Conference Travel Award, \$1,200
10/2017	Dukes Travel Award, \$400
8/2017	Training Course in fMRI, University of Michigan, \$2,500
12/2016	Center for Spatial Studies Specialist Meeting, UC Santa Barbara, \$700
9/2016 – 6/2017	UC Davis Department of Psychology: <ul style="list-style-type: none"> • Fellowship for Academic Excellence, \$1,000 • First-Year Research Fellowship, \$6,684 • Fellowship for Non-Residential Supplemental Tuition, \$15,102
8/2015 – 5/2016	Honors Undergraduate Research Award, UNR, \$2000
5/2015 – 8/2015	Summer Research Fellowship, Memory and Brain Laboratory, UNR, \$4000
2014 – 2015	General Undergraduate Research Award, UNR, \$1500

ACADEMIC AWARDS and HONORS

5/2015	Psi Chi Poster Symposium, UNR, 1 st Place
8/2012 – 5/2013	General Undergraduate Scholarship, UNR, \$2,500
8/2012 – 5/2016	Governor Guinn Millennium Scholarship, UNR, \$10,000
8/2012 – 5/2016	Gaining Awareness & Readiness for Undergraduate Programs, UNR, \$10,000

TEACHING and MENTORING EXPERIENCE

Undergraduate Research Assistants:

- Emily Erlenbach (1/2017 – 8/2017)
- Elijah Ziskin (6/2017 – 9/2017)
- Diego Marquez (10/2017 – 10/2018)
- Conner Daniels (1/2018 – 6/2019)
- Jocelyn Huerta (2/2019 – 10/2019)
- Praveena Singh (10/2017 – Present)

University of California, Davis – Department of Psychology

1/2017 – Present Teaching Assistant:
PSC1Y: Intro to Psychology (Fall 2018)

PSC168: Abnormal Psychology (Spring 2017; Spring 2018)
PSC132: Language & Cognition (Winter 2017)
PSC135: Cognitive Neuroscience (Summer 2017)
PSC1Y: Intro to Psychology (Fall 2018)

9/2018 – Present Discussion sections taught:
PSC1Y: Intro to Psychology (Fall 2018)

University of Nevada, Reno – University Tutoring Center

1/2015 – 5/2016 Tutor (Biology, Chemistry, Psychology)
1/2015 – 5/2016 Supplemental Instruction Leader:
CHEM121: General Chemistry I (Spring 2015)
CHEM122: General Chemistry II (Fall 2015)
CHEM341: Organic Chemistry I (Spring 2016)

Renown Medical Center Emergency Department – Medical Scribe Systems

1/2013 – 9/2014 Emergency Medical Scribe Trainer

SERVICE

3/2021 Panel on Industry Internships: FUTURE Program, Davis, CA
2/2021 Talk on Industry Internships: UNR Professional Development Course, Reno, NV
11/2019 OPAM conference volunteer, Montreal, CA
6/2018 – 6/2019 Brown Bag Coordinator and Organizer, Davis, CA
6/2017 – 8/2017 UC Davis School of Education Young Scholars Program, Davis, CA
4/2016 Brain Awareness Week Presentation: Boys & Girls Club, Reno, NV
4/2015 – 6/2016 Senior Editor of the Nevada State Undergraduate Research Journal
2/2016 Brain Games & Presentation: Rollan Melton Elementary, Reno, NV
7/2014 Volunteer: Regent Care Center, Reno, NV
7/2014 Volunteer: Keep Truckee Meadows Beautiful, Reno, NV

AFFILIATIONS

Psychonomic Society, Society for Neuroscience, Cognitive Neuroscience Society, Women in Cognitive Science, Nu Rho Psi, Phi Kappa Phi