

Stefania René Ashby M.S.

1227 University of Oregon • Eugene, OR 97403
stefania@uoregon.edu

EDUCATION

Doctor of Philosophy, Psychology 9/2015 - *present*

University of Oregon
Area: Cognitive Neuroscience
Cumulative GPA: 4.04

Master of Science, Psychology 9/2015 – 12/2016

University of Oregon
Area: Cognitive Neuroscience
Thesis: *The Role of Test and Restudy in the Retention of New Facts*
Cumulative GPA: 4.03

Bachelor of Science, Psychology 8/2008 - 12/2011

Brigham Young University
Area: Brain, Behavior, and Cognition
Cumulative GPA: 3.92 – *Magna Cum Laude*

PROFESSIONAL MEMBERSHIPS

- Society for Neuroscience
- Cognitive Neuroscience Society
- UO Women in Neuroscience
- UO Women in Graduate Science

INTERESTS

- Memory • Category Learning • fMRI
- Machine Learning • Functional Connectivity • Data Science
- Open Science

SKILLS

- MATLAB • R • Qualtrics
- PsychToolbox • E-Prime • SPSS
- SPM • FSL • PyMVPA

AWARDS AND HONORS

University of Oregon Annual Travel Award.....	2017-2019
National Science Foundation GRFP Honorable Mention	2016
Phi Kappa Phi National Honor Society.....	2011
Golden Key National Honor Society.....	2010
Psi Chi International Honor Society	2010
Phi Eta Sigma National Honor Society.....	2009

RESEARCH EXPERIENCE

Graduate Research Associate 9/2015 – *present*

Brain and Memory Laboratory
University of Oregon
Dr. Dasa Zeithamova-Demircan

Staff Research Associate I 6/2012 – 8/2015

Translational Cognitive and Affective Neuroscience Laboratory
University of California, Davis
Dr. Tara Niendam
Dr. Cameron Carter

Undergraduate Research Assistant 1/2011 – 1/2012

Memory and Cognition Laboratory
Brigham Young University
Dr. C. Brock Kirwan

Undergraduate Research Assistant 8/2011 – 12/2011

Neuropsychology Laboratory
Brigham Young University
Dr. Shawn Gale

PUBLICATIONS

- Ashby, S.R.** & Zeithamova, D. (in prep). Generalized memory representations emerge across paired-associates training.
- Bowman, C.R., **Ashby, S.R.** & Zeithamova, D. (*in prep*). Aging effects on instructed and non-instructed category learning.
- Ashby, S.R.** & Zeithamova, D. (*under review*). The role of test and restudy in the retention of new facts. *Journal of Experimental Psychology: Learning, Memory, and Cognition*.
- Ashby, S.R.**, Bowman, C.R., & Zeithamova, D. (*under review*). Perceived similarity ratings predict generalization success after traditional category learning and a new paired-associate learning task. *PsyArXiv Preprint*, <https://doi.org/10.31234/osf.io/x8c9n>
- Garcia, P.L., **Ashby, S.R.**, Patel, P.K., Pierce, K.M., Meyer, M., Rosenthal, A., Titone, M., Carter, C.S., & Niendam, T.A. (2019). Clinical and neurodevelopmental correlates of aggression in early psychosis. *Schizophrenia Research*, 212, 171-176.
- Rosenthal, A., Mayo, D., Tully, L.M., Patel, P.K., **Ashby, S.R.**, Titone, M., Meyer, M., Carter, C.S., & Niendam, T.A. (*under review*). Contributions of childhood trauma and atypical development to poor clinical course in recent onset psychosis. *Early Intervention in Psychiatry*.
- Niendam, T.A., Ray, K.L., Losif, A.M., Lesh, T.A., **Ashby, S.R.**, Patel, P.K., Smuncy, J., Ferrer, E., Solomon, M., Ragland, J.D., & Carter, C.S. (2018). Association of age at onset and longitudinal course of prefrontal function in youth with schizophrenia. *JAMA Psychiatry*, 75(12), 1252-1260, doi:10.1001/jamapsychiatry.2018.2538
- Kirwan, C.B., **Ashby, S.R.**, & Nash, M.I. (2014). Remembering and imagining differentially engage the hippocampus: A multivariate fMRI investigation. *Cognitive Neuroscience*, 5(3-4), 177-185, doi: 10.1080/17588928.2014.933203

POSTERS & SYMPOSIA

- Ashby, S.R.**, Bowman, C.R., & Zeithamova, D. (2019). Generalized memory representations emerge across paired-associate training. *Presented at the 49th Annual Society for Neuroscience Meeting, Chicago, IL*.
- Elliot, O., **Ashby, S.R.***, Frank, L.R., Iwashita, T., & Zeithamova, D. (2019). Memory Specificity in Color and Location. *Presented at the Saturday Academy (ASE) Internship Symposium, Portland OR*
- Ashby, S.R.**, Bowman, C.R., & Zeithamova, D. (2019). Spontaneous generalization following paired-associate training. *Presented at the 26th Annual Cognitive Neuroscience Society Meeting, San Francisco, CA*.
- Ashby, S.R.**, Bowman, C.R., & Zeithamova, D. (2018). Spontaneous generalized memory representations following paired-associates training. *Presented at the 48th Annual Society for Neuroscience Conference, San Diego, CA*.
- Ashby, S.R.**, Bowman, C.R., & Zeithamova, D. (2017). Changes in item representations during category learning. *Presented at the 47th Annual Society for Neuroscience Conference, Washington, D.C*.
- Zeithamova, D., **Ashby, S.R.**, & Bowman, C.R. (2017). Changes in face representations following category learning. *Presented at the Cognitive Science Association for Interdisciplinary Learning annual meeting, Hood River, OR*.
- Ashby, S.R.**, Bowman, C.R., & Zeithamova, D. (2017). Changes in item representations following category learning. *Presented at the 24th Annual Cognitive Neuroscience Society Meeting, San Francisco, CA*.
- Niendam, T.A., **Ashby, S.**, Patel, P., Losif, A., Ferrer, E., Lesh, T.A., Solomon, M., Ragland, J.D., &

- Carter, C.S. (2016). No evidence of degeneration of prefrontal functioning after first episode of schizophrenia. *Oral presentation at the Annual American College of Neuropsychopharmacology Meeting, Hollywood, FL.*
- Howell, A.M., Salo, T., Patel, P.K., **Ashby, S.**, Lesh, T.A., Niendam, T.A., & Carter, C.S. (2016). Exploring the relationship between psychopathic traits and cognitive control performance in the context of reward. *Presented at the annual meeting for the Society for Neuroscience, San Diego CA.*
- Lopez-Garcia, P., Niendam, T., **Ashby, S.**, Pierce, K., & Carter, C. (2016). Aggression in first episode psychosis: Characteristics and associated factors. *Presented at the annual meeting for the European College of Neuropsychopharmacology.*
- Patel, P.K., **Ashby, S.R.**, Lesh, T.A., & Niendam, T.A. (2016). Trait irritability in early psychosis: Impact on perceived frustration during fMRI response inhibition task. *Presented at the annual meeting for the Society for Research in Psychopathology, Baltimore MD.*
- Tully, L.M., Niendam, T.A., **Ashby, S.R.**, Lesh, T.A., & Carter, C.S. (2015). Linking the brain to daily social behavior in early psychosis: Neural activation of cognitive control network predicts desire for and enjoyment of daily social interactions. *Presented at the annual meeting for the Society for Biological Psychiatry, Toronto, Ontario, Canada.*
- Ashby, S.R.**, Tully, L.M., Lesh, T.A., Carter, C.S., & Niendam, T.A. (2015). Distinct neural activation patterns during cognitive control of emotion in early psychosis. *Presented at the annual meeting for the Cognitive Neuroscience Society.*
- Tully, L.M., **Ashby, S.**, Lesh, T.A., Carter, C.S., & Niendam, T.A. (2015). Lateral prefrontal activation during cognitive control of task-relevant emotional information predicts social functioning in early psychosis. *Oral presentation at the biennial meeting for the International Congress on Schizophrenia Research, Colorado Springs, CO.*
- Niendam, T.A., Lesh, T.A., **Ashby, S.**, De Leon, E., Ragland, J.D., & Carter, C.S. (2014). Aggression in early psychosis is associated with impairments in prefrontally-mediated cognitive reappraisal of emotion. *Presented at the annual meeting for the American College of Neuropsychopharmacology, Phoenix, AZ.*
- Niendam, T.A., Ferrer, E., Lesh, T.A., **Ashby, S.**, Solomon, M., Ragland, J.D., Yoon, J., Minzenberg, M., & Carter, C.S. (2013). Age-at-onset and cognitive control-related brain circuitry in first episode schizophrenia. *Presented at the annual meeting for the American College of Neuropsychopharmacology, Hollywood, FL.*
- Nash, M.I., **Ashby, S.R.**, & Kirwan, C.B. (2013). Using multi-voxel pattern analysis to differentiate between remembering and imagining within the hippocampus: An fMRI study. *Presented at the annual meeting for the Society for Neuroscience.*
- Niendam, T., **Ashby, S.**, Lesh, T., Correa, E., & Carter, C. (2013). Clinical and cognitive correlates of aggression in early psychosis. *Oral presentation at the annual meeting for the Society for Research in Psychopathology, Oakland, CA.*
- Solomon, M., Titone, M., **Ashby, S.**, Benavidez, M., Carter, C., & Niendam, T. (2013). Correlates of Autism Spectrum Disorder (ASD) traits in early psychosis. *Presented at the annual meeting for the Society for Research in Psychopathology, Oakland, CA.*
- Smith, Q., Hartshorn, A., **Ashby, S.**, James, J., Motley, S. & Kirwan, C.B. (2011). Hippocampal volume predicts pattern separation performance. *Presented at the annual meeting for the Society for Neuroscience.*

* indicates role as primary mentor

TEACHING EXPERIENCE

Graduate Instructor

University of Oregon

Psych 438: Perception 4/2020 – 6/2020

Graduate Teaching Assistant

University of Oregon

Lead Instructor

9/2015 – present

Psych 438: Perception	Dr. Sereno	1/2020 – 3/2020
Psych 305: Cognitive Psychology	Dr. Hutchinson	4/2019 – 6/2019
Psych 433: Learning and Memory	Dr. Unsworth	1/2019 – 3/2019
Psych 433: Learning and Memory	Dr. Kuhl	9/2018 – 12/2018
Psych 438: Perception	Dr. Kuhl	4/2018 – 6/2018
Psych 433: Learning and Memory	Dr. Kuhl	1/2018 – 3/2018
Psych 433: Cognition	Dr. Unsworth	9/2017 – 12/2017
Psych 433: Learning and Memory	Dr. Kaur-Bala	4/2017 – 6/2017
Psych 438: Perception	Dr. Sereno	1/2017 – 3/2017
Psych 440: Psycholinguistics	Dr. Fausey	9/2016 – 12/2016
Psych 330: Thinking	Drs. Rode & Bell	9/2015 – 6/2016

Undergraduate Teaching Assistant

Brigham Young University

Lead Instructor

5/2011 – 8/2011

Psych 111: General Psychology
Psych 381: Behavioral Neurobiology

Dr. Hedges
Dr. Gale

GUEST LECTURES / WORKSHOPS

- 2019 Preparing and Applying for Graduate School. University of Oregon, Eugene, OR.
- 2018 fMRI Imaging Bootcamp – co-taught a week-long, intensive workshop for undergraduate research assistants in the lab, teaching imaging preprocessing as well as how to conduct univariate, and multivariate analyses. University of Oregon, Eugene, OR
- Classical and Operant Conditioning. University of Oregon, Psychology 433 Guest Lecture
Introduction to Visual Perception. University of Oregon, Psychology 438 Guest Lecture
- 2017 Multivariate Investigations in fMRI. University of Oregon, Psychology 433 Guest Lecture
Introduction to Color Perception. University of Oregon, Psychology 438 Guest Lecture
- 2014 fMRI Processing using SPM8. Distinguished Alumni Workshop. Brigham Young University Psychology Department, Provo, UT
- 2012 Preparing for Post-Baccalaureate Work in Psychology. University of California, Davis Psi Chi Chapter, Davis, CA

MENTORING

- 2019 **Saturday Academy: ASE Internship** – mentored a high-school student for a summer internship. Instruction included teaching experimental design, coding, and collecting behavioral data from human subjects. Eugene, OR
- 2019 **Visiting Student Summer Research** – mentored a visiting undergraduate student from U.C. Berkeley for seven weeks teaching coding in MATLAB and experimental design.
- 2017 **Summer Program for Undergraduate Research (SPUR)** – co-mentored a visiting undergraduate student including training in experiment design, computer programming, and data analysis. Eugene, OR

OUTREACH

- 2017 - *present* **Mental Time-Travel Workshop** – hands-on workshop teaching basics of memory research and brain anatomy. Workshop has been presented annually at the following events:
- Apprenticeships in Science & Engineering's Saturday Academy (ASE), Corvallis, OR
 - Summer Academy to Inspire Learning (SAIL), Eugene, OR
- 2019 **Science Open House** – Science Program to Inspire Creativity and Excellence. Neuroanatomy demonstration using a sheep and human brain. Eugene, OR
- 2018 **Brain Awareness Week: Elementary Education** – hands-on workshop for Edison Elementary School's 2nd and 3rd grade classes. Presentations included perception, visual illusions, exploration of sheep brains, and basic anatomy. Eugene, OR
- 2016 **Science Open House** – Science Program to Inspire Creativity and Excellence, Eugene, OR
- 2016 **Meet a Scientist Day** – Science Factory, Eugene, OR