

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 Restudy in the Testing Effect*

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

RESEARCH INTERESTS

- Memory • Learning • fMRI
- Category Learning • Machine Learning
- Functional Connectivity

SKILLS

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

AWARDS AND HONORS

University of Oregon Fall Travel Award.....	2018
University of Oregon Fall Travel Award.....	2017
University of Oregon Winter Travel Award.....	2017
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

TEACHING EXPERIENCE

Graduate Teaching Assistant *University of Oregon*

	Lead Instructor	9/2015 – present
Psych 305: Cognitive Psychology	Dr. Hutchinson	4/2019 - present
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	Dr. Hedges	
Psych 381: Behavioral Neurobiology	Dr. Gale	

GUEST LECTURES

Classical and Operant Conditioning. University of Oregon, Psychology 433 Guest Lecture, October 2018, Eugene, OR

Introduction to Visual Perception. University of Oregon, Psychology 438 Guest Lecture, April 2018, Eugene, OR

Multivariate Investigations in fMRI. University of Oregon, Psychology 433 Guest Lecture, May 2017, Eugene, OR

Introduction to Color Perception. University of Oregon, Psychology 438 Guest Lecture, February 2017, Eugene, OR

fMRI Processing using SPM8. Distinguished Alumni Workshop. Brigham Young University Psychology Department, January 2014, Provo, UT

Preparing for Post-Baccalaureate Work in Psychology. University of California, Davis Psi Chi Chapter, October 2012, Davis, CA

PUBLICATIONS

Bowman, C.R., **Ashby, S.R.** & Zeithamova, D. (*in prep*). Aging effects on incidental and intentional category learning.

Ashby, S.R. & Zeithamova, D. (*in prep*). The role of test and restudy in the retention of new facts.

Ashby, S.R., Bowman, C.R., & Zeithamova, D. (*under review*). Generalization following incidental and intentional category learning. *Journal of Experimental Psychology: Learning, Memory and Cognition*. <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. (*under review*). Clinical and neurodevelopmental correlates of aggression in early psychosis. *Schizophrenia Research*.

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. *To be presented at the 49th Annual Society for Neuroscience Meeting, Chicago, IL.*
- 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.*

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.
- 2018 **fMRI Imaging Bootcamp** – week-long, intensive workshop for undergraduate research assistants in the lab, teaching imaging preprocessing as well as how to conduct univariate, and multivariate analyses. Eugene OR
- 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, Corvallis, OR
 Summer Academy to Inspire Learning, 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