

# EMILY JUNIPER WARD

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## ACADEMIC POSITIONS

2018– Assistant Professor, Department of Psychology  
UNIVERSITY OF WISCONSIN - MADISON

2017–18 Visiting Assistant Professor, Department of Psychology  
UNIVERSITY OF WISCONSIN - MADISON

2016–Present Visiting Researcher, Donders Institute  
Radboud University, Nijmegen, Netherlands

## EDUCATION

2010–16 Ph.D. Yale University, New Haven  
Psychology (Cognitive Neuroscience)  
Advisors: Marvin CHUN & Brian SCHOLL

2013 M.S., M.Phil. Yale University, New Haven

2007 B.A. Franklin & Marshall College, Lancaster

## HONORS & AWARDS

2015 Brains, Minds, & Machines Workshop Fellowship (Marine Biology Laboratory)

2014 Elsevier/Vision Research Travel Award (VSS Student Travel Award)

2011 Rovereto CAOs Travel Grant

2010–13 National Science Foundation Graduate Research Fellowship

2007 Rawnsley Science Prize for top undergraduate in science, FRANKLIN & MARSHALL

## RESEARCH INTERESTS

### *General Areas*

- Visual cognition, attention, and awareness
- Neural representation of high-level vision

### *Specific Questions*

- Are we aware of more than we can report?
- Where and when do failures of awareness arise?
- Do more distinct neural representations correspond to more distinct percepts?
- How are object representations transformed when objects undergo physical changes?

## PUBLICATIONS

Ward, E. J., Bear, A., & Scholl, B. J. (2016). Can you perceive ensembles without perceiving individuals?: The role of statistical perception in determining whether awareness overflows access. *Cognition*, 152, 78-86. [PDF](#)

Chekroud, A. M.\*, Ward, E. J.\*, Rosenberg, M. D., & Holmes, A. J. (2016). Patterns in the human brain mosaic discriminate males from females. *Proceedings of the National Academy of Sciences*, pii: 201523888. [PDF](#)

Ward, E. J. & Chun, M. M. (2016). Neural discriminability of object features predicts perceptual organization. *Psychological Science*, 27, 3-11. [PDF](#)

Ward, E. J. & Scholl, B. J. (2015). Stochastic or systematic?: Seemingly random perceptual switching in bistable events triggered by transient unconscious cues. *Journal of Experimental Psychology: Human Perception & Performance*, 41, 929-939. [PDF](#)

Ward, E. J. & Scholl, B. J. (2015). Inattention blindness reflects limitations on perception, not memory: Evidence from repeated failures of awareness. *Psychonomic Bulletin & Review*, 22, 722-727. [PDF](#) . [Featured in *News from the field* by Burnham (2015)]

Ward, E. J., Chun, M. M., & Kuhl, B. A. (2013). Repetition suppression and multi-voxel pattern similarity differentially track implicit and explicit visual memory. *Journal of Neuroscience*, 33, 14749-14757. [PDF](#) . [F1000 Recommended Article ([Review](#)|[Text](#))]

Lupyan, G. & Ward, E. J. (2013). Language can boost otherwise unseen objects into visual awareness. *Proceedings of the National Academy of Sciences*, 110, 14196-14201. [PDF](#)|[SI](#) . [Featured in *The Guardian* and *National Geographic*]

Ward, E. J., MacEvoy, S. P. & Epstein, R. A. (2010). Eye-centered encoding of visual space in scene-selective regions. *Journal of Vision*, 10, 1-12. [PDF](#)

Epstein, R. A. & Ward, E. J. (2010). How reliable are visual context effects in the parahippocampal place area? *Cerebral Cortex*, 20, 294-303. [PDF](#)

## MANUSCRIPTS

Ward, E. J., Isik, L., & Chun, M. M. (*submitted*). General transformations of object representations in human visual cortex.

Ward, E. J. & Chun, M. M. (*in revision*). Limitations of perceptual expectation on fMRI repetition suppression.

## CONFERENCE PRESENTATIONS

Ward, E. J. & Chun, M. M. (2016, May). Neural evidence for visual routines: Transforming object representations across physical changes. Poster presented at *Vision Science Society*, St. Pete's Beach, FL.

Ward, E. J. & Scholl, B. J. (2015, May). Inattention blindness reflects limitations on perception, not memory: Evidence from repeated failures of awareness. Talk presented at *Vision Science Society*, St. Pete's Beach, FL.

Ward, E. J. & Chun, M. M. (2014, November). Neural discriminability of object features predicts perceptual organization. Talk presented at *Society for Neuroscience*, Washington, DC.

- Ward, E. J. & Chun, M. M. (2014, May). Neural coding of perceptual features is enhanced when they are task relevant. Talk presented at *Vision Science Society*, St. Pete's Beach, FL. [Abstract published in *Journal of Vision*, 14(10): 22-22.]
- Ward, E. J. & Chun, M. M. (2013, November). Timescale limitations of perceptual expectation on fMRI repetition suppression. Poster presented at *Society for Neuroscience*, San Diego, CA.
- Ward, E. J. & Scholl, B. J. (2013, May). Making the switch: Transient unconscious cues can disambiguate bistable images. Talk presented at *Vision Science Society*, Naples, FL. [Abstract published in *Journal of Vision*, 13(9): 1107-1107.]
- Ward, E. J., Kuhl, B. A., & Chun, M. M. (2012, May). Multi-voxel pattern similarity predicts subsequent visual memory. Talk presented at *Vision Science Society*, Naples, FL. [Abstract published in *Journal of Vision*, 12(9): 123-1123.]
- Ward, E. J., Kuhl, B. A., & Chun, M. M. (2011, November). fMRI adaptation & multi-voxel pattern similarity reveal dissociable effects of face repetition. Talk presented at *Society for Neuroscience*, Washington, D.C.
- Ward, E. J., & Lupyan, G. (2011, May). Linguistic Penetration of Suppressed Visual Representations. Talk presented at the *Concepts, Actions, and Objects* annual meeting, Rovereto, Italy.
- Ward, E. J., & Lupyan, G. (2011, May). Linguistic Penetration of Suppressed Visual Representations. Poster presented at *Vision Sciences Society*, Naples, FL. [Abstract published in *Journal of Vision*, 11(11): 322-322.]
- Epstein, R., Smith, M., & Ward, E. (2009, May). What is the function of the parahippocampal place area? Testing the context hypothesis. Poster presented at *Vision Sciences Society*, Naples, FL. [Abstract published in *Journal of Vision*, 9(8): 963-963.]
- Epstein, R. A. & Ward, E. J. (2008, November). How reliable are "context" effects in the parahippocampal place area? Poster presented at *Society for Neuroscience*, Washington DC.
- Ward, E. J., Parker, W. E., Feiler, A. M., & Epstein, R. A. (2008, Mayb). Adaptation for individual places but not for place categories in scene-selective cortical regions. Poster presented at *Vision Sciences Society*, Naples, FL. [Abstract published in *Journal of Vision*, 8(6): 333-333.]
- Ward, E. J., Hattori, Y., Fujita, K., & Thompson, R. K. R. (2007, March). Effects of Two Dimensional Noise and Feature Configuration on the Recognition of Faces in Capuchins (*Cebus apella*). Poster presented at *Conference on Comparative Cognition*, Melbourne, FL.
- Leis, J., Ward, E. J., & Thompson, R. K. R. (2006, March). Does What a Monkey Receive Affect His Partner's Expectation of Reward? Some Answers from Capuchin Monkeys (*Cebus apella*). Poster presented at *Conference on Comparative Cognition*, Melbourne, FL.
- Ward, E. J., Eaves, E. & Fried, J. (2005, April). Effects of an Antidepressant Drug on Estrogen-Treated Rats in the Forced Swim Test. Talk presented at *National Conferences for Undergraduate Research*, Lexington, VA.

## INVITED TALKS

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| 2017 | Consciousness & Cognitive Access Workshop AARHUS UNIVERSITY, DENMARK   |
| 2016 | Jean Nicod Colloquium, ECOLE NORMALE SUPÉRIEURE, PARIS                 |
| 2016 | Department Talk, Psychology, UNIVERSITY OF WISCONSIN - MADISON         |
| 2015 | Current Works in Cognitive Psychology, YALE UNIVERSITY                 |
| 2014 | Magnetic Resonance Research Center fMRI Seminar, YALE UNIVERSITY       |
| 2013 | Current Works in Behavior, Genetics, and Neuroscience, YALE UNIVERSITY |

2012 Cognitive & Perception Brownbag, UNIVERSITY OF WISCONSIN - MADISON

### TEACHING EXPERIENCE

2014 The Human Brain, YALE UNIVERSITY, TEACHING FELLOW  
2012 Introduction to Cognitive Science, YALE UNIVERSITY, TEACHING FELLOW  
2012 Sex, Evolution, and Human Nature, YALE UNIVERSITY, TEACHING FELLOW  
2011 Methods in Human Neuroscience, YALE UNIVERSITY, TEACHING FELLOW  
2007 Neuroscience, FRANKLIN & MARSHALL COLLEGE, TEACHING ASSISTANT  
2006 Knowing Animal Minds, FRANKLIN & MARSHALL COLLEGE, TEACHING ASSISTANT

### RELATED EXPERIENCE

2007–10 Research Specialist, Epstein Lab, CENTER FOR COGNITIVE NEUROSCIENCE, UPENN  
2006–07 Senior Independent Honors Research, FRANKLIN & MARSHALL COLLEGE  
2006 Primate Cognition Lab Research Associate, PSYCHOLOGY, KYOTO UNIVERSITY  
2005 Hackman Scholars Research, FRANKLIN & MARSHALL COLLEGE

### ACADEMIC REFERENCES

Marvin M. Chun, Professor	Yale University	<a href="mailto:marvin.chun@yale.edu">marvin.chun@yale.edu</a>
Brian J. Scholl, Professor	Yale University	<a href="mailto:brian.scholl@yale.edu">brian.scholl@yale.edu</a>
Gregory McCarthy, Professor	Yale University	<a href="mailto:gregory.mccarthy@yale.edu">gregory.mccarthy@yale.edu</a>