

EMILY JUNIPER WARD

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ACADEMIC POSITIONS

- 2018– Assistant Professor, Department of Psychology
UNIVERSITY OF WISCONSIN - MADISON
- 2017–Present Visiting Assistant Professor, Department of Psychology
UNIVERSITY OF WISCONSIN - MADISON
- 2016–17 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. (*under review*). Downgraded Phenomenology: How conscious overflow lost its richness.

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

Lim, C., Vickery, T., Ward, E. J., & Johnson, M. M. (*in prep*). Drift in fMRI pattern representations during the delay interval predicts performance in a visual working memory task.

CONFERENCE PRESENTATIONS

Ward, E. J. & de Lange, F. P. (2018, May). The neural dynamics of category-based attention. Talk to be presented at *Vision Science Society*, St. Pete's Beach, FL.

Ward, E. J. & de Lange, F. P. (2017, November). The neural dynamics of category-based attention. Talk presented at *Society for Neuroscience*, Washington, DC.

- 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

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

- 2018 Basic Statistics for Psychologists, UNIVERSITY OF WISCONSIN - MADISON
- 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	marvin.chun@yale.edu
Brian J. Scholl, Professor	Yale University	brian.scholl@yale.edu
Gregory McCarthy, Professor	Yale University	gregory.mccarthy@yale.edu