

Department of Psychology
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Curriculum Vitae

Alex L. White

Research Associate Trainee

<http://alexlwhite.com>

Research Positions

University of Washington Seattle, Washington January 2015 – present

- Post-doctoral Research Associate with Dr. Geoffrey Boynton and Dr. John Palmer

Humboldt University Berlin Berlin, Germany January 2014 – November 2014

- Post-doctoral researcher in the lab of Dr. Martin Rolfes at the Bernstein Center for Computational Neuroscience.

Education

New York University New York City September 2013

- Doctor of Philosophy, Cognition & Perception
- Dissertation: “Feature-based attention across the visual field.”
- Advisor: Dr. Marisa Carrasco

The University of Sydney Sydney, Australia July 2008

- Master of Science (by research), Psychology
- Thesis: “The effects of variable neural delays on visual perception and visuomotor timing.”
- Advisor: Dr. Alex Holcombe

Yale College New Haven, Connecticut May 2007

- Bachelor of Arts (with distinction, summa cum laude), Cognitive Science
- Thesis: “Inattentional blindness, object persistence, and foveal inhibition.”
- Advisor: Dr. Brian Scholl.

Grants & Funding

- Postdoctoral NRSA (F32 EY026785), beginning 2016
- University of Washington Vision Training Grant (T32 EY007031), 2015

Honors and Awards

- Humboldt University Talent Travel Award, 2017
- Fulbright Scholar (to Australia), 2007
- Summa Cum Laude, 2007
- Phi Beta Kappa, Fall 2006

- Psi Chi Honor Society in Psychology
- Richter Fellowship, Summer 2005
- Yale College Dean's Research Fellowship, Summer 2006

Publications

- **White, A.L.**, Linares, D., & Holcombe, A.O. (2008). Visuomotor timing compensates for changes in perceptual latency. *Current Biology*, 18, R951 - R953. PMID: [18957248](#).
- Linares, D., Holcombe, A.O. & **White, A.L.** (2009). Where is the moving object now? Reports of instantaneous position show poor temporal precision ($\sigma = 70$ ms). *Journal of Vision*, 9(13):9, 1-14. PMID: [20055542](#).
- Kaul, C. & **White, A.L.** (2010). When feature-based attention distorts neural representations. *The Journal of Neuroscience*, 30, 10261-10262. ["Journal Club" commentary]
- **White, A. L.** & Carrasco, M. (2011). Feature-based attention involuntarily and simultaneously improves visual performance across locations. *Journal of Vision*, 11(6):15, 1-10. PMCID: [PMC3150523](#).
- **White, A. L.**, Rolfs, M. & Carrasco, M. (2013). Adaptive deployment of spatial and feature-based attention before saccades. *Vision Research*, 85, 26-35. PMCID: [PMC3612356](#).
- **White, A.L.**, Lunau, R. & Carrasco, M. (2013). The attentional effects of single cues and color singletons on visual sensitivity. *Journal of Experimental Psychology: Human Perception and Performance*, 40, 639-652. PMCID: [PMC3899109](#).
- Grubb, M.A., **White, A.L.**, Heeger, D.J. & Carrasco, M. (2015). Interactions between voluntary and involuntary attention modulate the quality and temporal dynamics of visual processing. *Psychonomic Bulletin & Review*, 22, 437-444. PMCID: [PMC4326639](#).
- **White, A.L.**, Rolfs, M. & Carrasco, M. (2015). Stimulus competition mediates the joint effects of spatial and feature-based attention. *Journal of Vision*, 15(14):7, 1-21. PMID: [26473316](#).
- **White, A.L.** & Rolfs, M. (2016). Oculomotor inhibition covaries with conscious detection. *Journal of Neurophysiology*, 116, 1507-1521. [PMC5040379](#)
- **White, A.L.***, Runeson, E.R.*, Palmer, J., Ernst, Z.R., & Boynton, G.M. (2017). Evidence for unlimited capacity processing of simple features in visual cortex. *Journal of Vision*, 17(6):19, 1-20. [PMC5488877](#) *The first two authors contributed equally to this work.
- Yashar, A., **White, A.L.**, Fang, W. & Carrasco, M. (2017). Feature singletons attract spatial attention independently of feature priming. *Journal of Vision*, 17(9):7, 1-18.

Conference Presentations

- White, A. Palmer, J. & Boynton, G.M. (2017). Evidence of serial processing in visual word recognition. Presented at the annual meeting of the *Vision Sciences Society*, May 2017, St Pete's Beach, Florida.
- White, A. Palmer, J. & Boynton, G.M. (2016). Can you recognize two words at once? Characterizing capacity limits in the visual processing of words. Presented at the annual meeting of the *Vision Sciences Society*, May 2016, St Pete's Beach, Florida.

- White, A. & Rolfs, M. (2015). A common cortical detection mechanism for perception and movement. Presented at the annual meeting of the *Vision Sciences Society*, May 2015, St Pete's Beach, Florida.
- White, A., Rolfs, M. & Carrasco, M. (2014). Stimulus competition modulates the joint effects of spatial and feature-based attention. Presented at the annual meeting of the *Vision Sciences Society*, May 2014, St Pete's Beach, Florida.
- White, A., Lunau, R. & Carrasco, M. (2013). The attentional effects of single cues and color singletons on visual sensitivity. Presented at the annual meeting of the *Vision Sciences Society*, May 2013, Naples, Florida.
- White, A. L., Rolfs, M. & Carrasco, M. The dynamics of spatial and feature-based attention during saccade preparation. Talk presented at the annual meeting of the *Society for Neuroscience*, October 2012, New Orleans, Louisiana.
- White, A., Lunau, R. & Carrasco, M. Single cues enhance contrast sensitivity, but feature singletons do not. Presented at the annual meeting of the *Vision Sciences Society*, May 2012, Naples, Florida.
- White, A., Rolfs, M. & Carrasco, M. Pre-saccadic attention for motion stimuli. Presented at the *European Conference on Visual Perception*, August 2011, Toulouse, France.
- White, A. & Carrasco, M. (2011). The simultaneous and involuntary effect of global feature-based attention on motion sensitivity. Presented at the annual meeting of the *Vision Sciences Society*, May 2011, Naples, Florida.
- White, A. & Carrasco, M. (2010). Measuring the spatial spread of feature-based attention to orientation. Presented at the annual meeting of the *Vision Sciences Society*, May 2010, Naples, Florida.
- White, A. Linares, D. & Holcombe, A. Visuomotor compensation for variation in perceptual latency. Presented at the annual meeting of the *Vision Sciences Society*, May 2009, Naples, Florida.
- White, A. Linares, D. & Holcombe, A. (2008). Visuomotor timing: Compensation for sensory latencies? Presented at the annual meeting of the *Australian Neuroscience Society*, January 2008, Hobart, Tasmania.
- White, A. & Scholl, B. Inattentional Blindness, Object Persistence, and Foveal Inhibition. Paper in preparation; Poster presented at the annual meeting of the *Vision Sciences Society*, May 2007, Sarasota, Florida.

Teaching Experience

- Supervisor of students in Undergraduate Research in Psychology, University of Washington, 2015-2017.
- Discussion Group Facilitator for the University of Washington's Biomedical Research Integrity Program, Summer 2012
- Instructor for "Perception," Psychology Department, New York University, Summer 2012
- Teaching Assistant for "Perception," Psychology Department, New York University, Summer 2011
- Teaching Assistant for "Lab in Developmental Psychology," Psychology Department, New York

University, Fall 2009.

- Teaching Assistant for "Perception," Psychology Department, New York University, Fall 2008
- Lecturer in "Sensation and Perception," School of Psychology, University of Sydney, summer 2008.
- Volunteer tutor for SAT preparation at PS1 in Manhattan and for high school biology at East Side Community High School, 2009-2011

Invited talks

- "Spatial and feature-based attention in visual perception." University of Colorado, May 2014.
- "The interaction of spatial and feature-based attention." University of Potsdam, April 2014.
- "The interaction of spatial and feature-based attention." Humboldt University Berlin, April 2014.
- "Visual Awareness and the Brain." New York City Atheists Association, July 2012.

Peer Reviews for Scientific Journals

- *Attention, Perception & Psychophysics*
- *Brain Sciences*
- *Current Biology*
- *Journal of Neurophysiology*
- *Journal of Experimental Psychology: General*
- *Journal of Vision*
- *Perception*
- *PLoS One*
- *Psychological Research*
- *Psychological Science*
- *Psychonomic Bulletin & Review*
- *Vision Research*

Peer reviews for funding agencies

- *Israeli Science Foundation*

Other Research Experience

- Yale College Dean's Research Fellowship: Summer 2006: Vision science research at the Yale Perception and Cognition Lab
- Yuko Munakata, Professor of Psychology at the University of Colorado: Summer 2005: research on infant cognition at the C.U. Cognitive Development Center
- Richter Fellowship: Summer 2005: Cognitive psychology research on rhesus monkeys at the Cayo Santiago Field Station, Punta Santiago, Puerto Rico.