

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 Prof. Geoffrey Boynton and Prof. John Palmer
- Humboldt University Berlin Berlin, Germany January 2014 – November 2014
- Post-doctoral researcher in the lab of Dr. Martin Rolf 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: Professor 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: Professor 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: Professor Brian Scholl

Grants & Funding

- Postdoctoral National Research Service Award (F32 EY026785), 2016 - 2018
- University of Washington Vision Training Grant (T32 EY007031), 2015
- New York University Vision Training Grant (T32 EY007135), 2011

Honors and Awards

- OPAM Travel Award, 2017 (Object Perception, Attention & Memory Conference)
- Humboldt University Talent Travel Award, 2017
- Fulbright Scholar (to Australia), 2007

- Summa Cum Laude, Yale College, 2007
- Phi Beta Kappa, Yale College, 2006

Peer-reviewed publications

- **White, A.L.**, Palmer, J. & Boynton, G. (in press). Evidence of serial processing in visual word recognition. *Psychological Science*. {[Pre-print available here](#)}.
- **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. [PMCID: 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. PMID: 28800369
- **White, A.L.** & Rolfs, M. (2016). Oculomotor inhibition covaries with conscious detection. *Journal of Neurophysiology*, 116, 1507-1521. [PMCID: PMC5040379](#)
- **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](#).
- 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.**, 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](#).
- **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.** & Carrasco, M. (2011). Feature-based attention involuntarily and simultaneously improves visual performance across locations. *Journal of Vision*, 11(6):15, 1-10. PMCID: [PMC3150523](#).
- Kaul, C. & **White, A.L.** (2010). When feature-based attention distorts neural representations. *The Journal of Neuroscience*, 30, 10261-10262. ["Journal Club" commentary]
- 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](#).
- **White, A.L.**, Linares, D., & Holcombe, A.O. (2008). Visuomotor timing compensates for changes in perceptual latency. *Current Biology*, 18, R951 - R953. PMID: [18957248](#).

Manuscripts under review

- Joo, S.J., **White, A.L.**, Strodman, D.J. & Yeatman, J.D. (submitted). Optimizing text for an individual's visual system: The contribution of crowding to reading difficulties. {[Pre-print available here](#)}

Manuscripts in preparation

- White, A.L., Palmer, J., Boynton, G. & Yeatman, J.D. Development of visuospatial attention and its relation to reading ability.

Other publications

- White, A.L. (2017). "Bad timing." *The Cooper Square Review of Science, Medicine and Technology*. {[Online article](#)}

Conference Presentations

- White, A. Palmer, J. & Boynton, G.M. (2017). Evidence of a serial process in visual word recognition. Presented at the *Psychonomic Society Meeting*, November 2017, Vancouver, BC.
- White, A. Palmer, J. & Boynton, G.M. (2017). A test of divided attention: Can you recognize two words at once? Talk presented at the *Object Perception, Attention & Memory Conference*, November 2017, Vancouver, BC.
- White, A. Palmer, J. & Boynton, G.M. (2017). Can you recognize two words at once? Presented at the *European Conference on Visual Perception*, August 2017, Berlin, Germany.
- 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

- Science Teaching Experience for Postdocs, University of Washington: with faculty mentorship, currently designing a neuroscience course, entitled "*How to Build a Visual System*," to teach at the University of Puget Sound in 2018.
- Supervisor of five 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
- Supervisor of one undergraduate and one master's student, New York University, 2009-2012.
- 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 PSI in Manhattan and for high school biology at East Side Community High School, 2009-2011

Mentees

- Francesca Cohen, B.A. in Psychology at New York University (2010). Thesis: "The mind's eye: Performance fields in visual imagery." Went on to Harvard Law School, class of 2015.
- Wanghaoming Fang, M.A. in Psychology at New York University (2014). Thesis: "The role of implicit visual short-term memory in attentional guidance." Currently a Ph.D. student at Michigan State University.
- Students in Psychology Undergraduate Research course at the University of Washington: Jun-Sang Yoo (B.A. 2015), Kadie-Anne Brown (B.A. 2016), Evan McCauley (B.A. 2017); Micah Ketola (expected B.S. 2019), and Hasan Uswami (expected B.S. 2020).

Invited talks

- "Can you recognize two words at once?" University of Potsdam, September 2017.
- "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 Cognitive Neuroscience*
- *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 & Training

- Yale College Dean's Research Fellowship: Summer 2006: Vision science research at the Yale Perception and Cognition Lab. Supervised by Prof. Brian Scholl.
- Research assistant at the University of Colorado Cognitive Development Center, Summer 2005. Supervised by Prof. Yuko Munakata.
- Richter Fellowship: Summer 2005: Cognitive psychology research on rhesus monkeys at the Cayo Santiago Field Station, Punta Santiago, Puerto Rico. Supervised by Prof. Laurie Santos.
- European Summer School in Visual Neuroscience, Rauischholzhausen, Germany: 2012.