

Kimberley Orsten-Hooge, Ph.D.

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Education

- Ph.D., Psychology - Cognitive Neuroscience** May, 2015
Rice University
Dissertation: False Pop Out
- M.Sc., Cognitive Neuropsychology, with Distinction** Aug, 2007
Oxford Brookes University
Thesis: Bilingual lexical organization and the effects of learning a second language later in life: a recurrent network model.
- B.S., Psychology, cum laude** Dec, 2004
University of Houston-Downtown

Fellowships

- Martinos Center for Biomedical Imaging fMRI Visiting Fellowship** Oct, 2015
Massachusetts General Hospital & Harvard-MIT Division of Health Sciences and Technology
- Intensive training in the fundamentals of fMRI.

Research & Teaching

- Lead Research Analyst** Nov, 2018 – present
No Bullying Schools
- Design, implementation, and analysis of repeated measures research evaluating the effectiveness of a national bullying intervention program.
- Postdoctoral Research Associate and Lecturer** Aug, 2017 – present
University of Texas at Dallas
- Principal Investigator: Dr. Alice O'Toole
 - Project manager for behavioral research.
 - Primary lecturer for Introduction to Psychology
- Associate Faculty** Aug, 2017 – present
Collin College
- Primary lecturer for Learning Framework.

Postdoctoral Research Associate

Aug, 2015 – Dec, 2016

University of Arizona

- Principal Investigator: Dr. Mary Peterson
- Project manager for multiple research initiatives (behavioral, with some fMRI)
- Lab administrator

Graduate Lecturer

Jun-Jul, 2012 & 2013

Rice University

- Primary lecturer for Introductory Psychology

Graduate Research and Teaching Assistant

Aug, 2010 – May, 2015

Rice University

- Principal Investigator: Dr. James Pomerantz
- Research project manager for multiple behavioral research initiatives
- Lab administrator
- Teaching Assistant for Sensation and Perception, Emotion and Motivation, and Introduction to Cognitive Psychology

Research Coordinator III

Feb, 2008 – Jan, 2011

Baylor College of Medicine

- Principal Investigators: Dr. Harvey Levin, Dr. Gerri Hanten
- Grant and internal document preparation/submission.
- Supervised data collection during fMRI sessions.
- Designed surveys and questionnaires.
- Recruited participants.
- Performed psychiatric screenings using a standardized schedule.
- Performed cognitive/behavioral testing.
- Handled database design and data entry.
- Assisted in manuscript preparation/submission.

Psychology Staff

Aug, 2007 – Dec, 2007

The Monarch School

- Provided assessments and cognitive therapies for children with neurological differences.
- Maintained data and records from assessments and therapies.

Specialized Summer School Teacher

May, 2006 – July, 2006

The Monarch School

- Provided cognitive therapies for children with neurological differences.
- Maintained worked daily and quarterly summarized evaluations of each child's performance.

Intern

Sept, 2005 – May, 2006

The Monarch School

- Assisted in providing cognitive therapies children with neurological differences.

Consulting Projects

Beck Redden, LLP

Aug, 2014 – Apr, 2015

- Designed and executed research protocol specific to client's needs for trademark infringement case (Exxon Mobil Corp. v. FX Networks LLC et al., case number [4:13-cv-02906](#)).

Publications

Orsten-Hooge, K. D., Baragchizadeh, A., Karnowski, T. P., Bolme, D. S., Ferrell, R., Jesudasen, P. R., & O'Toole, A. J. (2019). Evaluating the Effectiveness of Automated Identity Masking (AIM) Methods with Human Perception. *arXiv preprint arXiv:1902.06967*.

Costa, T. L., **Orsten-Hooge, K.**, Rêgo, G. G., Wagemans, J., Pomerantz, J. R., & Boggio, P. S. (2018). Neural Signatures of the Configural Superiority Effect and Fundamental Emergent Features in Human Vision. *Scientific reports*, 8(1), 13954.

Orsten-Hooge, K. D., Portillo, M. C., & Pomerantz, J. R. (2015). False Pop Out. *Journal of Experimental Psychology: Human Perception and Performance*. 41(6),1623. PMID: 26214500

Avci, G., Hanten, G., Schmidt, A. T., Li, X., **Orsten, K.**, Post, M., & Newsome, M. R. (2013). Cognitive Contributors to resilience in youth from underserved populations: a Brief Report. *Journal of Public Mental Health*, 12(3): 165-170.

Schmidt, A. T., Hanten, G. R., Avci, G., Li, X., **Orsten, K. D.**, & Newsome, M. R. (2013). Relating resilience factors and decision-making skills in two groups of underserved adolescents: implications for intervention. *Journal of Juvenile Justice*, 2(2).

Cook, L. G., Hanten, G., **Orsten, K. D.**, Chapman, S. B., Li, X., Wilde, E. A., Schnelle, K.P., & Levin, H.S. (2013). Effects of moderate to severe traumatic brain injury on anticipating consequences of actions in adolescents: A preliminary study. *Journal of the International Neuropsychological Society*, 19(5): 508-517. doi: 10.1017/S1355617712001452. PMID: 23312035.

Hanten, G. R., Cook, L., **Orsten, K. D.**, Chapman, S. B., Li, X., Wilde, E. A., Schnelle, K. P., & Levin, H. S. (2011). Effects of traumatic brain injury on a virtual reality social problem solving task and relations to cortical thickness in adolescence. *Neuropsychologia*, 49(3), 486-497. doi: 10.1016/j.neuropsychologia.2010.12.007. PMCID: PMC3039308.

Schmidt, A. T., **Orsten, K. D.**, Hanten, G. R., Li, X., & Levin, H. S. (2010). Family environment influences emotion recognition following pediatric traumatic brain injury. *Brain Injury*, 24(13-14), 1550-1560. doi: 10.3109/02699052.2010.523047. PMID: PMC3249284.

Schmidt, A. T., Hanten, G. R., Li, X., **Orsten, K. D.**, & Levin, H. S. (2010). Emotion recognition following pediatric traumatic brain injury: Longitudinal analysis of emotional prosody and facial expression. *Neuropsychologia*, 48(10), 2869-2877. doi: 10.1016/j.neuropsychologia.2010.05.029. PMID: PMC2915940.

Orsten, K. D. (2007). Bilingual lexical organization and the effects of learning a second language later in life: a recurrent network model. Masters Thesis, Oxford Brookes University, Oxford, UK.

Presentations and Conference Proceedings

Pomerantz, J. R., Qiang, B., & **Orsten, K. D.** (2014, November). *A New Performance Measure of perceptual grouping*. Talk presented at the 2014 Configural Processing Consortium, Long Beach, California, USA.

Orsten, K. D. (2014, August). *The whole story of visual perception*. Talk presented at the Rice University Cog Tea seminar, Houston, Texas.

Orsten, K. D., & Pomerantz, J. R. (2014, May). *A Turn in the Road*. Talk presented at the Neural Correlate Society Annual Illusion of the Year Contest, St. Pete Beach, Florida, USA.

Orsten, K. D., & Pomerantz, J. R. (2013, November). *Pure False Pop Out, "Anti-Metamers" and Visual Saliency*. Poster presented at the 21st Annual Meeting on Object Perception, Attention and Memory, Toronto, Ontario, Canada.

Orsten, K. D., & Pomerantz, J. R. (2013, May). *False Pop Out and "Anti-Metamers"*. Poster presented at the 13th Annual Vision Sciences Society Conference, Naples, Florida, USA.

Orsten, K. D. (2013, April). *The road to pure False Pop Out: An autobiography*. Talk presented at the Rice University Cog Tea seminar, Houston, Texas.

Orsten, K. D., & Pomerantz, J. R. (2013, March). *Pure False Pop Out*. Talk presented at the 2013 Meeting of the Society for Experimental Psychology, Providence, RI, USA.

Orsten, K. D., & Pomerantz, J. R. (2012, November). *Pop out, true and false*. Talk presented at the 2012 Configural Processing Consortium, Minneapolis, Minnesota, USA.

Pomerantz, J. R., Cragin, A. I., **Orsten, K. D.**, & Portillo, M. C. (2012, May). *The computational and cortical bases for configural superiority*. Talk presented at the 12th Annual Vision Sciences Society Conference, Naples, FL, USA.

Orsten, K. D., & Pomerantz, J. R. (2012, March). *False Pop Out, Symmetry Breaking, and the Theory of Basic Gestalts*. Talk presented at the 2012 Meeting of the Society for Experimental Psychology, Houston, TX, USA.

Orsten, K. D. (2012, April). *Pop Out in visual search: Comparing predictions from Feature Integration, Guided Search, and the Theory of Basic Gestalts*. Talk presented at the Rice University Cog Tea seminar, Houston, Texas.

Orsten, K.D. (2011, April). *False Pop-Out in an odd quadrant visual search task*. Talk presented at the Rice University Cog Tea seminar, Houston, Texas.

Schmidt, A.T., & **Orsten, K.D.** (2009, May). *Cerebral Palsy: clinical correlates and assessment considerations*. Case study presented at the Neuropsychology Seminar for Psychology Services, Texas Children's Hospital and Baylor College of Medicine, Houston, Texas.

Conference Posters

Orsten-Hooge, K. D., Skocypec, R., Jannuzi, B. & Peterson, M. A. (2016, November). *Semantic Priming Facilitates Object Detection via Predictive Coding*. Poster presented at the 24th Annual Meeting on Object Perception, Attention and Memory, Boston, Massachusetts, USA.

Costa, T., **Orsten-Hooge, K. D.**, Rego, G. G., Pomerantz, J. R., & Boggio, P. S. (2016, May). *Neural Correlates of Configural Superiority and Emergent Features: an ERP study*. Poster presented at the 16th Annual Vision Sciences Society Conference, St. Pete Beach, Florida, USA.

Mestry, N. **Orsten-Hooge, K. D.**, Pomerantz, J. R. & Donnelly, N. (2016, May). *Eye Movements Reveal the Competition Between Basic and Configural Features in False Pop Out in Visual Search*. Poster presented at the 16th Annual Vision Sciences Society Conference, St. Pete Beach, Florida, USA.

Orsten-Hooge, K. D., Skocypec, R. & Peterson, M. A. (2016, May). *Semantic Priming Facilitates Figure Assignment*. Poster presented at the 16th Annual Vision Sciences Society Conference, St. Pete Beach, Florida, USA.

Orsten, K. D. & Pomerantz, J. R. (2014, May). *Is False Pop Out really pop out: Evidence from pilot RT functions*. Poster presented at the 14th Annual Vision Sciences Society Conference, St. Pete Beach, Florida.

Pomerantz, J. R., Qiang, B., Austin, A., & **Orsten, K. D.** (2014, May). *Target localization responses diagnose Emergent Features in singleton pop out*. Poster presented at the 14th Annual Vision Sciences Society Conference, St. Pete Beach, Florida.

Orsten, K. D. & Pomerantz, J., R., (2013, November). *Pure False Pop Out, "Anti-Metamers" and Visual Saliency*. Poster presented at the 21st Annual Meeting on Object Perception Attention and Memory, Toronto, Ontario, Canada.

Orsten, K. D. & Pomerantz, J. R. (2013, May). *False Pop Out and "Anti-Metamers"*. Poster presented at the 13th Annual Vision Sciences Society Conference, Naples, Florida.

Orsten, K. D., Hahn, A., & Pomerantz, J., R., (2012, November). *Pattern-breaking Pop Out: Further preliminary evidence in support of the Theory of Basic Gestalts*. Poster presented at the 2012 Configural Processing Consortium, Minneapolis, MN, USA.

Orsten, K. D. & Pomerantz, J. R. (2012, May). *False Pop Out and Pattern-breaking Pop Out: Evidence of configural disruption in conventional pop out*. Poster presented at the 12th Annual Vision Sciences Society Conference, Naples, Florida.

Orsten, K. D., Portillo, M., & Pomerantz, J. R. (2011, November). *A symmetry-breaking theory of false pop-out*. Poster presented at the 52nd Annual Meeting of the Psychonomic Society, Seattle, WA, USA.

Orsten, K. D., Portillo, M., & Pomerantz, J. R. (2011, May). *False pop-out in an odd quadrant visual search task*. Poster presented at the 11th Annual Vision Sciences Society Conference, Naples, Florida.

Orsten, K. D., Schmidt, A. T., Hanten, G. R., & Newsome, M. R. (2010, June). *Neurocognitive and psychiatric contributors to resilience: A preliminary case series*. Poster presented at the Second International Pathways to Resilience Conference, Halifax, Nova Scotia.

Schmidt, A. T., **Orsten, K. D.**, Li, X., Hanten, G. R., & Levin, H. S. (2010, February). *Family moderators of emotional prosody and adaptive functioning following pediatric traumatic brain injury*. Poster presented at the International Neuropsychological Society 38th Annual Meeting, Acapulco, Mexico.

Schmidt, A. T., Wilde, E. A., **Orsten, K. D.**, Li, X., & Levin, H. S. (2009, October). *Neuroimaging correlates of parent reported executive dysfunction following pediatric traumatic brain injury or orthopedic injury: a preliminary investigation*. Poster presented at the Society for Neuroscience - Neuroscience 2009, Chicago, Illinois.

Davis, S. E. & **Orsten K. D.** (2005, April). *The influence of auditory stimulation on visual targeting performance*. Poster presented at the 85th Annual Meeting of the Western Psychological Association, Portland, Oregon.

Awards

3rd Place winner, Neural Correlate Society's Illusion of the Year Contest	May, 2014
Rice University Graduate Fellowship Award Rice University Amount: \$18,500 per annum.	Aug, 2010 – May, 2015
Gertrude Maurin Fund Rice University Amount: \$1000 total.	Aug, 2010 – Aug, 2014
Departmental Travel Funding Rice University Amount: \$1500 total.	Aug, 2010 – May, 2014
Dean's List University of Houston	May, 2002 – Dec, 2004

Professional Organizations and Service

Illusion of the Year Contest Invited Judge Neural Correlates Society	May, 2015
Graduate Teaching Assistant Mentor Rice University	Jan, 2013 – May, 2013
Weekly Cog Tea Seminar Coordinator Rice University Psychology Department	Aug, 2011 – Aug, 2012
Psychology Department Representative Rice University Graduate Student Association	May, 2011 – May, 2012
Member American Psychological Association	Aug, 2000 – Aug, 2015
Member Vision Sciences Society	Oct, 2010 - present
Houston Neuropsychological Society Graduate Student Member	Aug, 2007 – Aug, 2010