

## Curriculum Vitae

Nancy Rankin Williams McGugin

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Department of Psychology

301 Wilson Hall

Vanderbilt University

Nashville, TN, 37203

## EDUCATION

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- 2011-present ***Vanderbilt University, Nashville, Tennessee***  
Post-doctorate fellow  
Advisor: Dr. Isabel Gauthier
- 2006-2011 ***Vanderbilt University, Nashville, Tennessee***  
Ph.D. (Psychology: Cognitive and Cognitive Neuroscience, 2006-present)  
Advisor: Dr. Isabel Gauthier  
GPA: 3.925
- 2007 ***University of California, Los Angeles, Los Angeles, CA***  
National Institute Training Program Advanced Neuroimaging Summer School
- 2002-2006 ***Princeton University, Princeton, New Jersey***  
B.A. (Psychology, Neuroscience certificate)  
Phi Beta Kappa, 2006; GPA: 3.96 (psych-neuro)

## GENERAL RESEARCH INTERESTS

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 Perceptual expertise; functional MRI of face and object recognition, learning and memory

## PUBLICATIONS (Those with an \* are peer-reviewed)

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- \***McGugin, R.W.** & Gauthier, I. (submitted). The reliability of face-selective responses in the Fusiform gyrus.
- \***McGugin, R.W.**, Van Gulick, A.E. & Gauthier, I. (submitted). Cortical thickness in fusiform face area predicts face and object recognition performance.
- \*Cho, S.J., Wilmer, J., Herzmann, G., **McGugin, R.W.**, Fiset, D., Van Gulick, A.E., Ryan, K. & Gauthier, I. (submitted). Item response theory analysis of the Cambridge Face Memory Test (CFMT).
- \***McGugin, R.W.**, Newton, A.T., Gore, J.C. & Gauthier, I. (in press). Expertise effects in right FFA2 are robust to increased attentional load. *Neuropsychologia*.
- \*Gauthier, I., **McGugin, R.W.**, Richler, J.J., Herzmann, G., Speegle, M. & Van Gulick, A.E. (2014). Experience moderates overlap between object and face recognition, suggesting common ability. *Journal of Vision*, 14(8), 1-12.
- \***McGugin, R.W.**, Van Gulick, A., Tamber-Rosenau, B., Ross, D. & Gauthier, I. (2014). Expertise effects in face-selective areas are robust to clutter and diverted attention, but not to competition. *Cerebral Cortex*. doi: 10.1093/cercor/bhu060
- \*Ross, D., **McGugin, R.W.** & Gauthier, I. (2014). Heterogeneity of FFA responses or multiplexing? *Trends in Cognitive Sciences*, 18 (4), 171-172.
- McGugin, R.W.** & Gauthier, I. (2013). The cognitive neuroscience of face recognition. In *Oxford Handbook of Cognitive Neuroscience*. New York. Oxford University Press.

- \***McGugin, R.W.**, Gatenby, J.C., Gore, J. & Gauthier, I. (2012). High-resolution imaging of expertise reveals reliable object selectivity in the FFA related to perceptual performance. *Proceedings of the National Academy of Sciences*, 109(42), 17063-17068.
- \***McGugin, R.W.**, Richler, J.J., Herzmann, G., Speegle, M. & Gauthier, I. (2012). The Vanderbilt Expertise Test reveals domain-general and domain-specific sex effects in object recognition. *Vision Research*, 69:10-22.
- \*Wong, A.C.-N., Qu, Z., **McGugin, R.W.**, Gauthier, I. (2011). Perceptual interference between processing of characters from alphabetic and non-alphabetic writing systems. *Journal of Vision*, 11, 1-8.
- \***McGugin, R.W.**, Tanaka, J.W., Lebrecht, S., Tarr, M.J. & Gauthier, I. (2010). Race-specific perceptual discrimination training improvement following short individuation training with faces. *Cognitive Science*, 107), 622.
- \*McKeeff, T.J., **McGugin, R.W.**, Tong, F., & Gauthier, I. (2010). Expertise increases the functional overlap between face and object perception. *Cognition*, 117(3), 355-360.
- \***McGugin, R.W.**, McKeeff, T.J., Tong, F., & Gauthier, I. (2010). Competition between domains of expertise in a visual search paradigm. *Attention, Perception & Psychophysics*, DOI: 10.3758/s13414-010-0006-5.
- \***McGugin, R.W.** & Gauthier, I. (2010). Perceptual expertise with objects predicts another hallmark of face perception. *Journal of Vision*, 10(4), doi:10.1167/10.4.15.
- McGugin, R.W.** & Tanaka, J. (2010). Transfer and Generalization in Learning. In M. Banich & D. Caccamise (Eds.) *Generalization of Knowledge: Multidisciplinary Perspectives*. New York: Psychology Press.
- \***Williams, N.R.**, Willenbockel, V. & Gauthier, I. (2009). Sensitivity to spatial frequency and orientation content is not specific to face perception. *Vision Research*, 19, 2353-2362.

#### PROFESSIONAL PRESENTATIONS

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- 2013            **McGugin, R.W.**, Van Gulick, A., Tamber-Rosenau, B., Ross, D. & Gauthier, I. (talk, 2013, October). Expertise effects in face-selective areas are robust to clutter and diverted attention, but not to competition. Perceptual Expertise Network, Nashville, TN.
- 2012            **McGugin, R.W.**, Newton, A.T., Gore, J.C. & Gauthier, I. (talk, 2012, October). Expertise effects in right FFA2 are robust to increased attentional load. Society for Neuroscience, New Orleans, LA.
- 2011            **McGugin, R.W.**, Gatenby, J.C., Gore, J.C. & Gauthier, I. (talk, 2011, April). High resolution imaging of the inferior temporal lobe using 7-Tesla. Perceptual Expertise Network, Nashville, TN.
- McGugin, R.W.**, Gatenby, J.C., Gore, J. & Gauthier, I. (talk; 2011, May). High resolution fMRI of the functionally-defined Fusiform Face Area using 7T. International Society for Magnetic Resonance in Medicine, Montreal, CA.
- 2010            **McGugin, R.W.**, Richler, J.J., Harrison, S., & Gauthier, I. (talk; 2010, September). Developing a better test of individual differences in perceptual expertise. Perceptual Expertise Network, Chicago, IL.
- McGugin, R.W.**, Tanaka, J.W., Lebrecht, S., Tarr, M. & Gauthier, I. (poster; 2010, May). Race-specific perceptual discrimination improvement following short individuation training with faces. Vision Sciences Society, Naples, FL.
- 2009            **Williams, N.R.** & Gauthier, I. (poster; 2009, May). Expertise CAN explain why face perception is sensitive to spatial frequency content. Annual Meeting of the Vision Sciences Society, Naples, FL
- 2008            **Williams, N.R.** & Gauthier, I. (poster; 2008, May). Can expertise explain why face perception is sensitive to spatial frequency content? Annual Meeting of the Vision Sciences Society, Naples, FL.
- Williams, N.R.**, Gatenby, C. & Gauthier, I. (talk; 2008, October). High resolution imaging of the Fusiform Face Area. Perceptual Expertise Network, Chicago, IL.

**Williams, N.R.** & Gauthier, I. (poster; 2008, November). Can expertise explain why face perception is sensitive to spatial frequency content? Tennessee Psychological Association Annual Convention, Nashville, TN.

2007 **Williams, N.R.**, McKeef, T. J., Tong, F., & Gauthier, I. (talk; 2007, May). Competition between domains of expertise in a visual search paradigm, Annual Meeting of the Vision Sciences Society, Sarasota, FL.

**Williams, N.R.**, McKeef, T. J., Tong, F., & Gauthier, I. (talk; 2007, April). Competition between domains of expertise in a visual search paradigm, Perceptual Expertise Network, New Haven, CT.

#### TEACHING EXPERIENCE

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2009-2011 Preston Taylor Ministries math/science tutor  
2009 Teacher Assistant: Principles of Experimental Design, Vanderbilt University (Instructor: Dr. Julie Taylor)  
2008 Teacher Assistant: General Psychology, Vanderbilt University (Instructor: Dr. Jo-Anne Bachorowski)  
2007 Teacher Assistant: Abnormal Psychology, Vanderbilt University (Instructor: Dr. Bunmi Olatunji)

#### AWARDS & HONORS

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Vanderbilt University Pat Burns Memorial graduate student research award: 2011  
Vanderbilt University Dissertation Enhancement Grant: 2010  
Middle Tennessee Chapter Society for Neuroscience Datablitz competition winner: 2010  
National Scholars Honor Society: 2009  
Vision Sciences Society Travel Grant: 2007  
Lisa M. Quesenberry Foundation Fund Award for psychology students: 2007  
"Golden Greeble" Travel Award by the Perceptual Expertise Network: 2006  
Learning Sciences Institute Topper Award, Vanderbilt University: 2006  
Phi Beta Kappa, Princeton University: 2006  
Class of 1943 Senior Thesis Prize in Neuroscience, Princeton University: 2006  
Howard Crosby Warren Senior Prize for excellence in Psychology, Princeton University: 2006  
Howard Crosby Warren Junior Prize for excellence in Psychology, Princeton University: 2005  
Kraft Award for the tennis player who contributes the most to advance the interests of Princeton excellence on and off the court: 2005  
American Tennis Coaches Association Varsity Women's All-Academic Team: 2003, 2004, 2005, 2006  
Collegiate Tennis Association All-Academic Team: 2003, 2004, 2005, 2006

#### ASSOCIATION MEMBERSHIPS & PROFESSIONAL AFFILIATIONS

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2012-present Society for Neuroscience  
2011-present Princeton Alumni Association – Nashville Board of directors  
2011-present United States Tennis – Tennessee Board of directors  
2010-2012 Nashville Committee on Foreign Relations  
2010-present Princeton Alumni School Committee of Nashville  
2009-present National Scholars Honor Society  
2008-present Middle Tennessee Chapter Society for Neuroscience Member  
2007-present Temporal Dynamics of Learning Center  
2006-present Princeton Alumni Association of Nashville  
2006-present Vision Sciences Society  
2006-present Perceptual Expertise Network