

Corey Nathan White

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Education

Truman State University, Kirksville, MO
B.S., Cum Laude, Psychology 2005

The Ohio State University, Columbus, OH
M.A., Ph.D, Psychology 2010
Emphases: Cognitive Modeling, Quantitative Psychology

Research Experience

Psychophysiology and biofeedback research team, Truman State University
Lab Manager 2002-2005
Supervisor: Fredrick Shaffer, PhD

ElderLynk—Neurobehavioral Sciences: Gutensohn Health and Wellness Clinic, Kirksville, MO
Intern 2004
Supervisor: Jeffrey Vittengl, PhD

Ratcliff and McKoon Cognition Lab, The Ohio State University
Graduate Fellow 2005-2006
Research Associate 2007-2010
Supervisor: Roger Ratcliff, PhD

Poldrack Cognitive Neuroscience Lab, University of Texas at Austin
Postdoctoral Fellow 2010 - present

Teaching Experience

Teaching assistant: *Research Methods in Cognitive Psychology (Ohio State)* 2007-2009

Guest Lecturer: (Ohio State) *Perception; Research in Psychology;*
(University of Texas) *Introduction to Cognition* 2010,2011

Membership in Professional Associations

Association for Applied Psychophysiology and Biofeedback 2002-2005
Society for Mathematical Psychology: student member 2007-present
Society for Neuroscience 2011-present
Psychonomics Society: Associate Member 2011-present

Publications

- Vittengl, J. R., **White, C. N.**, Mcgovern, R. J., Morton, B. J. (2006). Comparative validity of seven scoring systems for the Instrumental Activities of Daily Living scale in rural elders. *Aging & Mental Health, 10*, 33-39.
- Leite, F. P., Ratcliff, R., **White, C. N.** (2007). Individual differences on speeded cognitive tasks: Comment on Chen, Hale, and Myerson (2008). *Psychonomic Bulletin and Review, 14*, 1007-1009.
- White, C. N.**, Ratcliff, R., Vasey, M. W., McKoon, G. (2009). Dysphoria and memory for emotional material: A diffusion model analysis. *Cognition & Emotion, 23*, 181-205.
- White, C. N.**, Ratcliff, R., Vasey, M. W., McKoon, G. (2010). Anxiety enhances threat processing even without competition among multiple inputs: A diffusion model analysis. *Emotion, 10*, 662-677.
- White, C. N.**, Ratcliff, R., Vasey, M. W., McKoon, G. (2010). Using diffusion models to understand clinical disorders. *Journal of Mathematical Psychology, 54*, 39-52.
- Starns, J. J., **White, C. N.**, & Ratcliff, R. (2010). A direct test of the differentiation Mechanism: REM, BCDMEM, and the strength-based mirror effect in recognition memory. *Journal of Memory and Language, 63*, 18-34.
- White, C. N.**, Ratcliff, R., & Starns, J. J. (2011). Diffusion models of the flanker task: Discrete versus gradual narrowing of attention. *Cognitive Psychology, 63*, 210-238.
- White, C. N.**, Brown, S., & Ratcliff, R. (2012). A test of Bayesian observer models for the flanker task. *Journal of Experimental Psychology: Human Perception and Psychophysics, 38*, 489-497.
- Starns, J.J., Ratcliff, R., & **White, C. N.** (2012). Diffusion model drift rates can be influenced by decision processes: An analysis of the strength-based mirror effect. *Journal of Experimental Psychology: Learning, Memory, and Cognition*. In press.
- Whitmer, D. & **White, C. N.** (2012). Evidence of human subthalamic nucleus involvement in decision making. *Journal of Neuroscience*, in press.
- White, C. N.** & Poldrack, R. A. (2012). Using functional neuroimaging to constrain theory testing. *Perspectives in Psychological Science*, in press.
- Starns, J. J., **White, C. N.**, & Ratcliff, R. (2012). The strength-based mirror effect in subjective strength ratings: The evidence for differentiation can be produced without differentiation. *Memory & Cognition*, in press.
- White, C. N.**, Kapucu, A., Bruno, D., Rotello, C. M., & Ratcliff, R. (2012). Increased familiarity for emotional items in immediate recognition is driven by effects of category membership. submitted.
- White, C. N.**, Mumford, J. A., & Poldrack, R. A. (2012). Perceptual criteria in the human brain. *Journal of Neuroscience*, in press.
- White, C. N.** & Poldrack, R. A. (2012). Decomposing bias in simple decisions. Submitted.
- White, C. N.**, Congdon, E., Mumford, J. A., Karlsgodt, K. H., Sabb, F. W., Freimer, N. B., London, E. D., Cannon, T. D., Bilder, R. M., & Poldrack, R. A. (2012). Decomposing decision components in the Stop-signal task: A model-based approach to individual differences in inhibitory control. Submitted.
- White, C. N.**, Ratcliff, R., Vasey, M. W., McKoon, G. (2012). Trait anxiety and threat bias in recognition memory: The role of list composition. In revision.
- White, C. N.**, Ratcliff, R., Vasey, M. W., McKoon, G. (2012). A diffusion model analysis of anxiety and threat classification. In preparation.

Presentations

- Shaffer, F., Giddings, L., Jacobsmeyer, S., Sasfai, S., Lynam, I., Schlereth, L., & **White, C. N.** (2003). *Validation of an infrared temperature scanning procedure for the hands*. Poster presented at 2003 national conference of Association for Applied Psychophysiology and Biofeedback, Jacksonville, FL.
- White, C. N.**, & Lammy, D. (2004). *Infrared hand temperature mapping*. Poster presented at 2004 national conference of Association for Applied Psychophysiology and Biofeedback, Colorado Springs, CO.
- White, C. N.**, Sappington, B., & Whipple III., J. (2005). *Comparison of three tracking tests for BVP and SCL*. Paper presented at 2005 national conference of the Association for Applied Psychophysiology and Biofeedback, Austin, TX.
- White, C. N.**, Ratcliff, R., Vasey, M. W., McKoon, G. (2007). *Emotional processing and dysphoria: A diffusion model analysis*. Poster presented at the 2007 Meeting for the Society of Mathematical Psychology, Irvine, CA.
- White, C. N.**, Ratcliff, R., Vasey, M. W., McKoon, G. (2007). *A diffusion model analysis of threat processing in anxiety*. Poster presented at the 2007 Meeting of the Psychonomics Society, Long Beach, CA.
- White, C. N.**, Ratcliff, R., Vasey, M. W., McKoon, G. (2007). *Threat processing and error reactivity in anxiety*. Paper presented at the 2008 Meeting of the Society for Mathematical Psychology, Washington, D.C.
- Starns, J. J., **White, C. N.**, & Ratcliff, R. (2008). *Enhanced lure rejection by strengthening studied items: Contrasting encoding- and retrieval-based mechanisms from REM and BCDMEM*. Poster presented at the 2007 Meeting of the Psychonomics Society, Chicago, IL.
- White, C. N.**, Ratcliff, R., & Starns, J. J. (2009). *A diffusion model account of processing in the flanker task. Attention and overlapping spatial representations*. Paper presented at the 2009 Meeting of the Society for Mathematical Psychology, Amsterdam, Netherlands.
- White, C. N.**, Ratcliff, R., & Starns, J. J. (2009). *Comparison of processing models of the flanker task*. Poster presented at the 2009 Meeting of the Psychonomic Society, Boston, MA.
- White, C. N.**, Ratcliff, R., & Starns, J. J. (2010). *Developing and testing RT models for new paradigms*. Paper presented at the 2010 Meeting of the Society for Mathematical Psychology, Portland, OR.
- White, C. N.**, Kapucu, A., Bruno, D., Rotello, C. M., & Ratcliff, R. (2010). *The role of categorical effects in memory for emotional words*. Poster presented at the 2010 Meeting of the Psychonomic Society, St. Louis, MO.
- White, C. N.**, Mumford, J. A., & Poldrack, R. A. (2011). *Decision rules and the transformation of perceptual information into decision-related action*. Poster presented at the meeting of the Society for Neuroscience, Washington D.C.
- White, C. N.**, Mumford, J. A., & Poldrack, R. A. (2011). *Decision rules and the transformation of perceptual information into decision-related action*. Paper presented at the Meeting of the Psychonomic Society, Seattle, WA.
- White, C. N.** & Poldrack, R. A. (2012). *Bias in simple decisions*. Paper presented at the 2012 Meeting of the Society for Mathematical Psychology, Columbus, OH.
- White, C. N.**, Congdon, E., Mumford, J. A., Karlsgodt, K. H., Sabb, F. W., Freimer, N. B., London, E. D., Cannon, T. D., Bilder, R. M., & Poldrack, R. A. (2012). *Decomposing decision components in the Stop-signal task: A model-based approach to individual differences in inhibitory control*. Poster to be presented at the meeting of the Society for Neuroscience, New Orleans, LA.
- White, C. N.** & Poldrack, R. A. (2012). *Bias in simple decisions*. Paper to be presented at the

2012 Meeting of the Psychonomic Society, Minneapolis, MN.

Special Training

Workshop on Bayesian Modeling, Amsterdam, The Netherlands 2009

Honors and Awards

Psi Chi, Truman State University Chapter 2002-2005
President 2004-2005
Psychology Student of the Year: Truman State University 2004/2005
Omicron Delta Kappa: National Honor Leadership Society 2003-2005
Undergraduate Scholarships:
A Plus President's Honorary
Missouri Bright Flight President's Leadership
President's Combined Ability
Ohio State University Graduate Fellowship 2005-2006
Society for Mathematical Psychology: Student Travel Award 2007, 2008, 2009, 2011
Hayes Graduate Research Forum, The Ohio State University
Best in Academic Area: Social Sciences 2009
James Mosher Klein Award for Outstanding Dissertation Proposal
Cognitive Psychology Area, The Ohio State University 2009
Herbert Toops Award for Creative Dissertation Proposal
Department of Psychology, The Ohio State University 2009

Reviews

Ad hoc reviewer: *Journal of Experimental Psychology: Learning, Memory, and Cognition*;
Psychonomic Bulletin and Review (10), *Nature Neuroscience*, *Emotion*,
Journal of Mathematical Psychology, *Journal of Neuroscience (2)*.

Board of consulting editors: *Psychonomic Bulletin and Review*

Grants Submitted

NIH: F31 MH081418-01A1 (2007) Percentile 21.8
Applying sequential sampling models to explore effects of anxiety and depression

NSF 7285835 (2012) Pending
Adjusting decision bias: Using models of decision making and reinforcement learning to identify
how the brain learns to adapt choice preferences.
PI: Russell Poldrack. Co-I: Corey White, Todd Maddox, Peter Stone
Total direct costs: \$392,492

Grants Funded

NIH grant F32 MH096522-01A1 9/1/12-9/1/15

Neural correlates of decision bias in anxiety

PI: Corey White

Total direct costs: \$162,648

References

Roger Ratcliff, PhD

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Russell Poldrack, PhD

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Michael Vasey, PhD

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