

## Corey Nathan White, PhD

## Curriculum Vita

Associate Professor of Psychology  
Missouri Western State University  
Department of Psychology  
217B Murphy Hall  
4525 Downs Dr., St. Joseph, MO 64507  
816-271-5844

Principal Investigator: Cognition Lab, Missouri Western State University

### Education and Previous Work Experience

Missouri Western State University, Department of Psychology	
Associate Professor	2020-present
Assistant Professor	2017-2020
Syracuse University, Department of Psychology	
Cognition, Brain, & Behavior Area	
Assistant Professor	2013-2017
University of Texas at Austin, Department of Psychology and Neuroscience	
Postdoctoral Fellow, Advisor: Russell Poldrack	2010-2013
The Ohio State University, Columbus, OH	
M.S., Psychology	2006
Ph.D, Psychology, Advisor: Roger Ratcliff	2010
Emphases: Cognitive Modeling, Quantitative Psychology	
Truman State University, Kirksville, MO	
B.S., Cum Laude, Psychology	2005
Minors: Statistics, Philosophy/Religion	

### Publications

\* indicates undergraduate research assistant; \*\* indicates graduate advisee

#### Book Chapters

**White, C. N.** & Poldrack, R. A. (2018). Methods for fMRI Analysis. *Stevens' Handbook of Experimental Psychology and Cognitive Neuroscience, Fourth Edition*, 5, 1-31.

#### Journal articles in press

- White, C. N.**, & \*Kitchen, K. A. (2022). On the need to improve the way individual differences in cognitive function are measured with reaction time tasks. *Current Directions in Psychological Science*, in press.
- Fosco, W. D., Meisel, S. N., Weigard, A., **White, C. N.**, & Colder, C. R. (2022). Computational modeling reveals strategic and developmental differences in the behavioral impact of reward across adolescence. *Developmental Science*, 25(2).
- Adise, S., **White, C. N.**, Roberts, N. J., Geier, C. F., & Keller, K.L. (2021). Children's inhibitory control abilities in the presence of rewards are related to weight status and eating in the absence of hunger. *Appetite*, epub.
- Fuchs, B. A., Roberts, N. J., Adise, S., Pearce, A. L., Geier, C. F., **White, C. N.**, Oravec, Z., & Keller, K. L. (2021). Decision-making processes related to perseveration are indirectly associated with weight status in children through laboratory-assessed energy intake. *Frontiers in Psychology*.

- Fuchs, B., Roberts, N., Adise, S., Pearce, A., Geier, C., **White, C. N.**, Oravec, Z., & Keller, K. (2020). Decision-making processes in children are associated with the tendency to overeat in the laboratory. *Obesity, 28*, 74-74.
- Pearce, A., Adise, S., Roberts, N. J., **White, C. N.**, Geier, C. F., & Keller, K. L. (2020). Individual differences in the influence of taste and health impact successful dietary self-control: A mouse-tracking food choice study in children. *Physiology & Behavior, in press*.
- Vandekerckhove, J., **White, C. N.**, Trueblood, J. S., Rouder, J. N., Matzke, D., Leite, F. P., Etz, A., Donkin, C., Devezer, B., Criss, A., & Lee, M. D. (2019). Robust diversity in cognitive science. *Computational Brain & Behavior, 2(3-4)*, 271-276.
- Starns, J. J., Cataldo, A. M., Rotello, C. M., Annis, J., Aschenbrenner, A., Broder, A., Cox, G., Criss, A., Curl, R. A., Dobbins, I. G., Dunn, J., Enam, T., Evans, N. J., Farrell, S., Fraundorf, S. H., Gronlund, S. D., Heathcote, A., Heck, D. W., Hicks, J. L., Huff, M. J., Kellen, D., Key, K. N., Kilic, A., Klauer, K. C., Kraemer, K. R., Leite, F. P., Lloyd, M. E., Malejka, S., Mason, A., McAdoo, R. M., McDonough, I. M., Michael, R. B., Mickes, L., Mizrak, E., Morgan, D. P., Mueller, S. T., Osth, A., Reynolds, A., Seale-Carlisle, T. M., Signmann, H., Sloane, J. F., Smith, A. M., Tillman, G., van Ravenzwaaij, R., Weidemann, C. T., Wells, G. L., **White, C. N.**, Wilson, J. (2019). Assessing theoretical conclusions with blinded inference to investigate a potential inference crisis. *Advances in Methods and Practices in Psychological Science, 2(4)*, 335-349.
- Curl, R. A. & **White, C. N.** (2019). Cueing effects in the Attentional Network Test: A Spotlight Diffusion Model Analysis, *Journal of Vision, 107c*.
- Lefferts, W. K., DeBlois, J. P., **White, C. N.**, & Heffernan, K. S. (2019). Effects of acute aerobic exercise on cognition and constructs of decision-making in adults with and without hypertension. *Frontiers in Aging Neuroscience, 11*, 41.
- Lee, M. D., Criss, A. H., Devezer, B., Donkin, C., Etz, A., Leite, F. P., Matzke, D., Rouder, J. N., Trueblood, J. S., **White, C. N.**, & Vandekerckhove, J. (2019). Robust modeling in cognitive science. *Computational Brain & Behavior, in press*.
- Lefferts, W. K., DeBlois, J. P., **White, C. N.**, Day, T. A., Heffernan, K. S., & Brutsaert, T. D. (2019). Changes in cognitive function and latent processes of decision-making during incremental ascent to high altitude. *Physiology & Behavior, 201*, 139-145.
- Dutilh, G., Annis, J., Brown, S. D., Cassey, P., Evans, N. J., Grasman, R. P. P. P., Hawkins, G. E., Heathcote, A., Holmes, W. R., Kryptos, A.-M., Kupitz, C. N., Leite, F. P., Lerche, V., Lin, Y.-S., Logan, G. D., Palmeri, T. J., Starns, J. J., Trueblood, J. S., van Maanen, L., van Ravenzwaaij, D., Vandekerckhove, J., Visser, I., Voss, A., **White, C. N.**, Wiecki, T. V., Rieskamp, J., & Donkin, C. (2019). The quality of response time data inference: A blinded, collaborative assessment of the validity of response time models. *Psychonomic Bulletin & Review, 26(4)*, 1051-1069.
- Adise, S., Geier, C. F., Roberts, N. J., **White, C. N.**, & Keller, K. L. (2019). Food or money? Children's brains respond differently to rewards regardless of weight status. *Pediatric Obesity, 14*.
- Mueller, C. J., **White, C. N.**, & Kuchinke, L. (2019). Individual differences in emotion processing: How similar are diffusion model parameters across tasks? *Psychological Research, 83(6)*, 1172-1183.
- White, C. N.**, Servant, M., & Logan, G. D. (2018). Testing the validity of conflict drift-diffusion models for use in estimating cognitive processes: A parameter-recovery study. *Psychonomic Bulletin & Review, 25(1)*, 286-301.
- White, C. N.** & Curl, R. (2018). Cueing effects in the Attentional Network Test: A spotlight diffusion model analysis. *Computational Brain & Behavior, 1*, 59-68.
- Adise, S., Geier, C. F., Roberts, N. J., **White, C. N.**, Keller, K.L (2018). Is the brain response to food rewards related to overeating? A test of the reward surfeit model of overeating in children. *Appetite, 128*, 167-179.
- Baribault, B., Donkin, C., Little, D. R., Trueblood, J. S., Oravec, Z., van Ravenzwaaij, D., **White, C. N.**, De Boeck, P., & Vandekerckhove, J. (2018). Robust tests of theory with randomly sampled experiments. *Proceedings of the National Academy of Sciences, 115(11)*, 2607-2612.
- White, C. N.**, Liebman, E., & Stone, P. (2018). Decision mechanisms underlying mood-congruent emotional classification. *Cognition & Emotion, 32*, 249-258.

- \*\*Meuller, C. J., **White, C. N.**, & Kuchinke, L. (2017). Electrophysiological correlates of the drift diffusion model in visual word recognition. *Human Brain Mapping, 38*, 5616-5627.
- Moustafa, A. A., Szabolcs, K., Bertalan, P., & **White, C. N.** (2017). Drift-diffusion model of reward and punishment learning in rare alpha-synuclein gene carriers. *Journal of Neurogenetics, 31*, 17-22.
- Spinola, S., Maisto, S., **White, C. N.**, & Huddleson, T. (2017). Effects of acute alcohol intoxication on executive functions controlling self-regulated behavior. *Alcohol, 61*, 1-8.
- Lefferts, W. K., Babcock, M. C., Tiss, M. J., Ives, S. J., **White, C. N.**, Burtseart, T. D., & Heffernan, K. S. (2016). Effect of hypoxia on cerebrovascular and cognitive function during moderate intensity exercise. *Physiology and Behavior, 165*, 108-118.
- Fosco, W. D., **White, C. N.**, & Hawk, L. (2017). Acute stimulant treatment and reinforcement speed the rate of information accumulation in children with ADHD. *Journal of Abnormal Child Psychology, 45*, 911-920.
- Huang, Y., **White, C. N.**, Xia, H., & Wang, Y. (2017). A computational cognitive modeling approach to understand and design mobile crowdsourcing for public safety. *International Journal of Human-Computer Studies, Special Issue on Mobile and Situated Crowdsourcing, 102*, 27-40.
- Servant, M., **White, C. N.**, Montagnini, A., & Burle, B. (2016). Linking theoretical decision-making mechanisms in the Simon Task with electrophysiological data: A model-based neuroscience study in humans. *Journal of Cognitive Neuroscience, 17*, 1-21.
- White, C. N.**, \*Skokin, K., \*Carlos, B., & \*Weaver, A. (2016) Using decision models to understand anxiety-related bias for threat classification. *Emotion, 16*, 196-207.
- White, C. N.**, \*\*Curl, R., & \*\*Sloane, J. F. (2016). Controlling and exploring individual differences in decision components with model-based cognitive neuroscience. *Frontiers in Psychology, 7*:81.
- White, C. N.**, Ratcliff, R., Vasey, M. W. (2016). Anxiety-related threat bias in recognition memory: The moderating effect of list composition and semantic-similarity effects. *Cognition and Emotion, 30*, 1446-1460.
- \*\*Lefferts, W., Hughes, W., **White, C. N.**, Brutsaert, T., & Heffernan, K. (2016). Effect of acute nitrate supplementation on neurovascular coupling and cognitive performance in hypoxia. *Applied Physiology, Nutrition, and Metabolism, 41*, 133-141.
- Servant, M., **White, C. N.**, Montagnini, A., & Burle, B. (2015). Using covert response activation to test latent assumptions of formal decision-making models. *Journal of Neuroscience, 35*, 10371-10385.
- Moustafa, A. A., Keri, S., Somlai, Z., Balsdon, T., Z., Frydecka, D., Misiak, B., & **White, C. N.** (2015). Drift Diffusion model of reward and punishment learning in schizophrenia: Modeling and experimental data. *Behavioural Brain Research, 291*, 147-154.
- White, C. N.**, Vanderdrift, L., & Hefernan, K. (2015). Social isolation, cognitive decline, and cardiovascular risk. *Current Opinion in Psychology, 5*, 18-23.
- Chen, M.Y., Jimura, K., **White, C.N.**, Maddox, T.W., & Poldrack, R.A. (2015). Multiple brain networks contribute to the acquisition of bias in perceptual decision-making. *Frontiers in Neuroscience, 9*:63.
- Cohen-Gilbert, J. E., Killgore, W. D. S., **White, C. N.**, Schwab, Z. J., Crowley, M. J., Schneider, J. T., & Silveri, M. M. (2014). Differential influence of safe versus threatening facial expressions on decision-making during an inhibitory control task in adolescence and adulthood. *Developmental Science, 17*, 212-223.
- 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. (2014). Decomposing decision components in the Stop-signal task: A model-based approach to individual differences in inhibitory control. *Journal of Cognitive Neuroscience, 26*, 1601-1614.
- White, C. N.** & Poldrack, R. A. (2014). Decomposing bias in different types of simple decisions. *Journal*

of *Experimental Psychology: Learning, Memory, & Cognition*, 40, 385-398.

- White, C. N.** & Poldrack, R. A. (2013). Using functional neuroimaging to constrain theory testing. *Perspectives in Psychological Science*, 8, 79-83.
- Hantsoo, L., Khou, C., **White, C. N.**, & Ong, J. (2013). Predictors of pre-sleep arousal and trait hyperarousal in insomnia. *Journal of Psychosomatic Research*, 74, 283-289.
- White, C. N.**, Kapucu, A., Bruno, D., Rotello, C. M., & Ratcliff, R. (2013). Memory bias for negative emotional words in recognition memory is driven by effects of category membership. *Cognition & Emotion*, 28, 867-880.
- 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*. 38, 1137-1151.
- Whitmer, D. & **White, C. N.** (2012). Evidence of human subthalamic nucleus involvement in decision making. *Journal of Neuroscience*, 32, 8753-8755.
- 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*, 40, 1189-1199.
- White, C. N.**, Mumford, J. A., & Poldrack, R. A. (2012). Perceptual criteria in the human brain. *Journal of Neuroscience*, 32, 16716-16724.
- 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.**, 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., Vasey, M. W., McKoon, G. (2009). Dysphoria and memory for emotional material: A diffusion model analysis. *Cognition & Emotion*, 23, 181-205.
- 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.
- 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.

### **Refereed Conference Proceedings and Abstracts**

- Olson, K., **White, C. N.**, & Lefferts, W. (2023). Adiposity is associated with effect of acute exercise on executive function. *Meeting of the American Psychosomatic Society, San Juan Puerto Rico*.
- Liebman, E., **White, C. N.**, & Stone, P. (2018). On the impact of music on decision making in cooperative tasks. *19th International Society for Music Information Retrieval Conference*.
- Liebman, E., Stone, P., & **White, C. N.** (2016). Impact of music stimuli on decision making in quantitative tasks. *17th International Society for Music Information Retrieval Conference*.
- Liebman, E., Stone, P., & **White, C. N.** (2015). Decision mechanisms underlying mood-congruent emotional classification. *2<sup>nd</sup> Conference on Reinforcement Learning and Decision Making*.  
\*Chosen for oral symposium.
- Liebman, E., Stone, P., & **White, C. N.** (2015). How music alters decision making: Impact of music stimuli on emotional classification. *16<sup>th</sup> International Society for Music Information Retrieval Conference*.

Huang, Y., **White, C. N.**, Xia, H., & Wang, Y. (2015). Modeling sharing decisions of campus safety reports and its design implications to mobile crowdsourcing for safety. *Proceedings of the 17<sup>th</sup> International Conference on Human-Computer Interaction with Mobile Devices and Services*.

Lefferts, W. K., Hughes, W. E., **White, C. N.**, Brutsaert, T. D., & Heffernan, K. S. (2015). Effect of Acute Nitrate Supplementation on Neurovascular Coupling at High Altitude. *International Journal of Exercise Science: Conference Proceedings*, 9, 54.

Huang, Y., Wang, Y., & **White, C. N.** (2014). Designing a mobile system for public safety using open crime data and crowdsourcing. *2014 ACM International Joint Conference on Pervasive and Ubiquitous Computing Proceedings*.

## Presentations

**White, C. N.** (2021). *On the need to improve the way we measure cognitive function*. Invited presentation, Social/Cognitive Brownbag, University of Kansas.

\*\*Sloane, J. F., \*\*Curl, R., & **White, C. N.** (2020). *Investigating the effect of memory bias on output interference*. Poster presented at the Annual Meeting of the Psychonomic Society, virtual.

**White, C. N.**, Waters, G., & Simchy-Gross, R. (2020). *RT Bank: An online repository for reaction time data and models*. Paper presented at the Annual Meeting of the Psychonomic Society, virtual.

\*Davidson, W., \*Kitchen, K., \*Walsh, D. & **White, C. N.** (2020). *Do delta plots provide a clean measure of conflict processing?* Poster presented at the Annual Meeting of the Psychonomic Society, virtual.

Fuchs, B., Roberts, N., Adise, S., Pearce, A. L., Geier, C., **White, C. N.**, Oravec, Z., & Keller, K. (2020). *Decision-making processes in children are associated with the tendency to overeat in the laboratory*. Obesity Week (Virtual).

**White, C. N.** & Servant, M. (2019). *Comparing performance of diffusion models for the Simon task*. Paper presented at the Annual Meeting of the Psychonomic Society, Montreal, Ca.

Pearce, A., Adise, S., Roberts, N. J., Geier, C. F., **White, C. N.**, Keller, K. L. (2019). *Temporal dynamics of taste and health differ by child weight status during a food decision making task*. Poster presented at the Annual Meeting of the Society for the Study of Ingestive Behavior, Utrecht, Netherlands.

Fuchs, B. A., Adise, S., Pearce, A., Roberts, N. J., Geier, C. F., **White, C. N.**, & Keller, K. L. (2019). *Decision making in a child-appropriate version of the Iowa Gambling Task differs by child weight status and maternal BMI*. Poster presented at the Annual Meeting of the Society for the Study of Ingestive Behavior, Utrecht, Netherlands.

\*Muir, L., \*Guyton, A., \*Gilmore, C., & **White, C. N.** (2019). *Individual differences in the Simon effect are influenced by factors other than executive control*. Poster presented at the Annual Meeting of the Psychonomic Society, Montreal, Ca.

**White, C. N.** (2018). *The reverse inference problem for RT measures of cognitive function*. Paper presented at the Annual Meeting of the Psychonomic Society, New Orleans, LA.

- \*Song, B., \*Guyton, A., \*Muir, L., & **White, C. N.** (2018). *Stop means go, and go means stop: Inhibitory control in the face of semantically incongruent information*. Poster presented at the Annual Meeting of the Psychonomic Society, New Orleans, LA.
- \*\*Curl, R. A., **White, C. N.**, & Criss, A. H. (2018). *Delta plot response time analysis of bias in recognition memory*. Poster presented at the Annual Meeting of the Psychonomic Society, New Orleans, LA.
- Adise, S., Geier, C. F., Roberts, N. J., Caprio, A. M., Belko, C., Reigh, N. A., **White, C. N.**, & Keller, K. L. (2017). *Children's brains respond more to winning money than food, regardless of weight status*. Oral Presentation at the Meeting of the Society for Neuroscience. Washington, D.C.
- Adise, S., Geier, C. F., Roberts, N. J., Caprio, A. M., Belko, C., Reigh, N. A., **White, C. N.**, & Keller, K. L. (2018). *Food and money elicit different patterns of brain response in children, regardless of weight status*. Poster Presentation at the Society for the Study of Ingestive Behavior, Montreal, Quebec, Canada.
- Vandekerckhove, J., Baribault, B., Donkin, C., Little, D. R., Trueblood, J. S., Oravecz, Z., Van Ravenzwaaij, D., & **White, C. N.** (2017). *Robust tests of theory with randomly sampled experiments*. Paper presented at the Annual Meeting of the Psychonomics Society, Vancouver, CA.
- White, C. N.** & Curl, R. (2017). *A spotlight diffusion model analysis of the attentional networks task*. Paper presented at the Annual Meeting of the Psychonomics Society, Vancouver, CA.
- Curl, R. A., Sloane, J. F., & **White, C. N.** (2017). *Interaction of gist and verbatim information in recognition memory: Temporal dynamics*. Poster presented at the Annual Meeting of the Psychonomics Society, Vancouver, CA.
- Sloane, J. F., Curl, R. A., & **White, C. N.** (2017). *Effects of item relatedness on output interference in recognition memory*. Poster presented at the Annual Meeting of the Psychonomics Society, Vancouver, CA.
- White, C. N.** (2017). *The reverse inference problem for measuring individual differences in cognitive function*. Invited Lecture, University College London, London, UK
- White, C. N.** (2017). *The reverse inference problem for measuring individual differences in cognitive function*. Invited Lecture, SUNY Oswego Department of Psychology, Oswego, NY
- White, C. N.** (2017). *The reverse inference problem for measuring individual differences in cognitive function*. Invited Lecture, University of Buffalo Department of Psychology, Buffalo, NY
- \*\*Sloane, J. F., \*\*Curl, R. A., & **White, C. N.** (2016). *Understanding effects of categorical membership on memory bias and discriminability as a function of output interference*. Poster presented at the Annual Meeting of the Psychonomics Society, Boston, MA.
- White, C. N.**, Servant, M., & Logan, G. D. (2016). *Assessing parameter validity and practical usage for diffusion models of conflict tasks*. Poster presented at the Annual Meeting of the Psychonomics Society, Boston, MA.
- White, C. N.** (2015) *Extraneous factors influence measures of attention in the Attentional Networks Task*. Paper presented at the Annual Meeting of the Psychonomics Society, Chicago, IL.
- White, C. N.** (2015). *Group comparisons of emotional processing using drift-diffusion models*. Paper presented at the Meeting of the International Society of Researchers in Child and Adolescent Psychiatry, Portland, Oregon.

- \*\*Curl, R. A., \*\*Sloane, J. F., & White, C. N. (2015).** *Exploring the representation of semantic similarity in recognition memory.* Poster presented at the Annual Meeting of the Psychonomics Society, Chicago, IL.
- White, C. N. (2014).** *Using response time models to make inferences about cognitive processes.* Invited lecture at SUNY Binghamton, NY.
- White, C. N. (2014).** *Decomposing bias in emotional classification with response time models.* Poster presented at the Annual Meeting of The Psychonomic Society, Long Beach, CA.
- White, C. N. & Curl, R. (2014).** *Temporal dynamics of semantic similarity in recognition memory decisions.* Poster presented at the Annual Meeting of the Psychonomic Society, Long Beach, CA.
- \*Stith, C, \*Ye-Chan, K., \*Dionne, M., \*Lodico, A., & White, C. N. (2014).** *Potential confound in the Attentional Networks Task.* Poster presented at the Psychology Undergraduate Research Symposium, Syracuse, NY. \* Selected as Poster of Distinction.
- \*Skokin, K., \*Carlos, B., \*Moy, K., \*Weaver, A., & White, C. N. (2014).** *A signal detection analysis of anxiety and threat classification.* Poster presented at the Psychology Undergraduate Research Symposium, Syracuse, NY.
- White, C. N. (2014).** *Using computational modeling to explore the neural mechanisms of simple decision making.* Paper presented at the SUNY Upstate Neuroscience Research Day, Syracuse, NY.
- White, C. N. (2014).** *Relating decision processes and inhibitory control with model-based fMRI.* Poster presented at the Meeting of the UNYTE Translational Research Network, Rochester, NY. \* Poster selected for the Faculty Research Award.
- White, C. N. (2013).** *Modeling individual differences in cognitive control.* Paper presented at the Meeting of the European Society of Cognitive Psychology, Budapest, Hungary.
- White, C. N. (2013).** *Flexibility in the decision process.* Invited seminar for Psychology Department, University of Massachusetts at Amherst.
- White, C. N. & Poldrack, R. A. (2013).** *Adjustment to choice preference: Neural and behavioral correlates of stimulus and response information across different decision tasks.* Poster presented at the Meeting of the Psychonomic Society, Toronto, Canada.
- Chen, M-Y, White, C. N., Elumn, A. J., Parikh, S., Wright, S., Maddox, W. T., & Poldrack, R. A. (2013).** *Learn to take risks: Reinforcement history alters humans' decision-making under risk.* Poster presented at the Meeting for the Society for Neuroscience Annual, San Diego, CA.
- White, C. N. & Poldrack, R. A. (2012).** *Bias in simple decisions.* Paper presented at the 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 presented at the Meeting of the Psychonomic Society, Minneapolis, MN.
- 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.**, Ratcliff, R., & Starns, J. J. (2010). *Developing and testing RT models for new paradigms*. Paper presented at the 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 Meeting of the Psychonomic Society, St. Louis, MO.
- 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 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 Meeting of the Psychonomic Society, Boston, MA.
- 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 Meeting of the Psychonomics Society, Chicago, IL.
- White, C. N.**, Ratcliff, R., Vasey, M. W., McKoon, G. (2008). *Threat processing and error reactivity in anxiety*. Paper presented at the Meeting of the Society for Mathematical Psychology, Washington, D.C.
- White, C. N.**, Ratcliff, R., Vasey, M. W., McKoon, G. (2007). *Emotional processing and dysphoria: A diffusion model analysis*. Poster presented at the 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 Meeting of the Psychonomics Society, Long Beach, CA.
- White, C. N.**, Sappington, B., & Whipple III., J. (2005). *Comparison of three tracking tests for BVP and SCL*. Paper presented at the Meeting for the Association for Applied Psychophysiology and Biofeedback, Austin, TX.
- White, C. N.**, & Lammy, D. (2004). *Infrared hand temperature mapping*. Poster presented at the Meeting for the Association for Applied Psychophysiology and Biofeedback, Colorado Springs, CO.
- 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 the Meeting for the Association for Applied Psychophysiology and Biofeedback, Jacksonville, FL.

## Grant Activity

### Funded

NSF 1650438

CAREER AWARD: Validating and applying a new class of drift-diffusion models for investigating individual differences in executive control.

6/17-6/23

PI: Corey White



Total costs: \$566,128

Childhood Obesity Prevention Program SEED grant, Pennsylvania State University 1/16-12/16  
The role of reward and inhibitory control pathways in overeating in health and overweight children  
PI: Shana Adise; CO-I: Nicole Roberts, Corey White, Charles, Geier, Kathleen Keller  
Total costs: \$14,994

SOE Joan N. Burstyn Endowed Fund for Collaborative Research (Syracuse U. internal) 8/15-8/16  
Effects of exercise on markers of brain function at high altitude  
PI: Wesley Lefferts, Collaborators: Kevin Heffernan, Corey White  
Total Costs: \$2,470

NIH grant F32 MH096522-01A1 (2012) 9/12-9/13  
Neural correlates of decision bias in anxiety  
PI: Corey White  
Total direct costs: \$162,648  
\* award terminated early due to taking a faculty position

#### Not Funded

PEW Early Career Award (nominated by Syracuse University)  
Computational cognitive modeling of executive function  
PI: Corey White  
Total costs: \$240,000

### Teaching Experience

---

Assistant/Associate Professor, Missouri Western State University 2017-present  
*Intermediate Psychology* *History and Systems in Psychology*  
*Introduction to Neuroscience* *Psychology Research Team*  
*Cognitive Psychology* *Learning and Memory*

---

Assistant Professor, Syracuse University: 2013-2017  
*Introduction to Biopsychology* *Neural Mechanisms of Executive Control (Graduate)*  
*Advanced Cognitive Neuroscience (Graduate)* *Introduction to Cognitive Neuroscience*  
*Neuroscience in the Media* *Simple Decisions (Graduate)*  
*Neuroscience in Society*

---

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

#### Guest Lecturer

---

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

### Membership in Professional Associations

Association for Applied Psychophysiology and Biofeedback 2002-2005  
Society for Mathematical Psychology: member 2007-present  
Society for Neuroscience 2011-present  
Psychonomics Society: Associate Member 2011-2015  
Fellow 2015-present  
European Society of Cognitive Psychology 2013-present

## Special Training

MR Physics and Pulse Sequence Design, University of Texas at Austin	2011
MRI safety and data acquisition training on GE and Siemens scanners	2011
Workshop on Bayesian Modeling, Amsterdam, The Netherlands	2009

## Honors and Awards

Nominated for PEW Early Career Award by Syracuse University	2015
Elected as Fellow of the Psychonomics Society	2015
Faculty Research Award, UNYTE Translational Research Network	2014

## Reviews

### Ad hoc reviewer

Advances in Cognitive Psychology	European Journal of Neuroscience
Attention, Perception, and Psychophysics	Frontiers in Perception Science
Behavior Research Methods	Journal of Abnormal Psychology
Biopsychology	J. Experimental Psych: Learning, Memory, & Cognition
Brain and Cognition	J. Experimental Psych: General
Brain Connectivity	J. Experimental Psych: Human Perception and Performance
Cerebral Cortex	Journal of Mathematical Psychology
Cognitive, Affective, & Behavioral Neuroscience	Journal of Neuroscience
Cognition and Emotion	Nature Neuroscience
Cognitive Psychology	Memory and Cognition
Cognition	Metabolic Brain Disease
Computational Brain & Behavior	Quarterly Journal of Experimental Psychology
Current Directions in Psychological Science	Psychological Review
Emotion	Psychological Medicine

Grant Panelist: *National Science Foundation; US-Israel Binational Science Foundation*

Board of Consulting Editors: *Psychonomic Bulletin and Review* (2012-2014)

Special Issue Editorial Board: *Journal of Mathematical Psychology* (2015)

## Departmental and Professional Service

### Masters Committee, Syracuse University

- Chris Melton, psychology (Supervisor: Catherine Cornwell)
- Jack Wilson, psychology (Supervisor: Amy Criss)
- Wesley Lefferts, Professional Physical Education (Supervisor: Kevin Heffernan)
- Nicole Shea, psychology (Supervisor: Natalie Russo) \* chair of defense committee
- Suzanne Spinola, psychology (Supervisor: Stephen Maisto) \*chair of defense committee
- Ryan Curl, psychology (Supervisor: Corey White)
- Sean Spangler, psychology (Supervisor: Amy Criss)

### Doctoral Supervising, Syracuse University:

- Ryan Curl, Cognition, Brain, and Behavior Area
- Jennifer Sloane, Cognition, Brain, and Behavior Area
- Suzanne Spinola (secondary advisor), Clinical Area

### Dissertation Committee, Syracuse University

- William Aue (Supervisor: Amy Criss)
- Alisa Alvis (Supervisor: Tanya Eckert)
- Wesley Lefferts, Professional Physical Education (Supervisor: Kevin Heffernan)
- Ryan Curl (Supervisor: Corey White, Amy Criss)

Dissertation outside reader  
Anna Suraev, University of Sydney, AU

Qualifying Exam and Dissertation Committee  
Shana Adise, Pennsylvania State University (Department of Nutrition)

Cognition, Brain and Behavior Area, Syracuse University  
Graduate Admissions: Coordinator  
Graduate Evaluation: Committee Member

## References

Roger Ratcliff, PhD  
The Ohio State University  
Psychology Building  
1835 Neil Ave  
Columbus, OH 43201

Telephone: 614-292-7916  
Email: ratcliff.22@osu.edu

Russell Poldrack, PhD  
University of Texas at Austin  
Norm Hackerman Building  
100 E. 24<sup>th</sup> St.  
Austin, TX 78712

Telephone: 512-850-6189  
Email: poldrack@mail.utexas.edu

Amy Criss, PhD  
Syracuse University  
Huntington Hall  
Syracuse, NY 13244

Telephone: 315-443-3667  
Email: acriss@syr.edu

Michael Vasey, PhD  
The Ohio State University  
Psychology Building  
1835 Neil Ave  
Columbus, OH 43201

Telephone: 614-292-7333  
Email: vasey.1@osu.edu