

THOMAS R. REPPERT

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EDUCATION

2009-2016 Ph.D. in Biomedical Engineering, Johns Hopkins University

2003-2007 B.S. in Aerospace Engineering, Virginia Polytechnic Institute and State University

PROFESSIONAL EXPERIENCE

2022- Assistant Professor of Psychology and Neuroscience, The University of the South

2020-2022 Visiting Assistant Professor of Psychology and Neuroscience, The University of the South

2016-2020 Postdoctoral Fellow, Psychological Sciences, Vanderbilt University

PEER-REVIEWED PUBLICATIONS

1. Cammack, K. M., **Reppert, T. R.**, & Cook-Snyder, D. R. (2021). The Simpsons Neuron: A Case Study Exploring Neuronal Coding and the Scientific Method for Introductory and Advanced Neuroscience Courses. *J Undergrad Neurosci Educ*, *19*(2), C1-C10.
2. Lowe, K. A., **Reppert, T. R.**, & Schall, J. D. (2019). Selective influence and sequential operations: A research strategy for visual search. *Visual cognition*, *27*(5-8), 387-415.
3. **Reppert, T. R.**, Rigas, I., Herzfeld, D. J., Sedaghat-Nejad, E., Komogortsev, O., & Shadmehr, R. (2018). Movement vigor as a traitlike attribute of individuality. *Journal of neurophysiology*, *120*(2), 741-757.
4. **Reppert, T. R.**, Servant, M., Heitz, R. P., & Schall, J. D. (2018). Neural mechanisms of speed-accuracy tradeoff of visual search: saccade vigor, the origin of targeting errors, and comparison of the superior colliculus and frontal eye field. *Journal of neurophysiology*, *120*(7), 372-384.
5. **Reppert, T. R.**, Lempert, K. M., Glimcher, P. W., & Shadmehr, R. (2015). Modulation of saccade vigor during value-based decision making. *Journal of neuroscience*, *35*(46), 15369-15378.
6. Haith, A. M., **Reppert, T. R.**, & Shadmehr, R. (2012). Evidence for hyperbolic temporal discounting of reward in control of movements. *Journal of neuroscience*, *32*(34), 11727-11736.

REVIEWS & COMMENTARIES

1. Shadmehr, R., **Reppert, T. R.**, Summerside, E. M., Yoon, T., & Ahmed, A. A. (2019). Movement vigor as a reflection of subjective economic utility. *Trends in neurosciences*, *42*(5), 323-336.

FELLOWSHIPS, GRANTS, & HONORS

2018-2020 Ruth L. Kirschstein NRSA F32 Postdoctoral Fellowship, National Eye Institute (\$120,812)

2016-2018 T32 Postdoctoral Fellowship, Vanderbilt University and National Eye Institute

2009-2012 Graduate Research Fellowship, National Science Foundation

2007-2008 Fulbright Research Scholarship, Department of State

CONFERENCE POSTERS & PRESENTATIONS

1. Lappin JS, Lowe KA, Reppert TR, Schall JD, and Bell HH. "The dynamics of perception and action." Vision Sciences Society, Virtual Conference, June 2021.
2. Reppert TR, Subraveti CR, and Schall JD. "Speed-accuracy tradeoff of visual search: Network dynamics through spike rate correlations between supplementary eye field and visuomotor structures." Vision Sciences Society, Virtual Conference, June 2020.
3. Schall JD and Reppert TR. "Speed-accuracy tradeoff of visual search: Modulation of pupil size." Vision Sciences Society, Virtual Conference, June 2020.
4. Lowe KA, Reppert TR, and Schall JD. "Neural correlates of multidimensional perceptual decision making in macaque frontal eye field." Vision Sciences Society, Virtual Conference, June 2020.
5. Reppert TR, Heitz RP, and Schall JD. "Speed-accuracy tradeoff of visual processing in supplementary eye field: Comparison with frontal eye field and superior colliculus." Society for Neuroscience, Chicago, IL, October 2019.
6. Lowe KA, Reppert TR, and Schall JD. "Separate modifiability of stages of target selection for visual search in macaques." Society for Neuroscience, Chicago, IL, October 2019.
7. Reppert TR, Heitz RP, and Schall JD. "Monitoring and proactive control of visual search speed-accuracy tradeoff by supplementary eye field." Vision Sciences Society, St. Pete Beach, FL, May 2019.
8. Reppert TR, Heitz RP, and Schall JD. "Visual search strategies: performance monitoring by macaque supplementary eye field during speed-accuracy tradeoff." Society for Neuroscience, San Diego, CA, November 2018.
9. Lowe KA, Reppert TR, and Schall JD. "Visual search strategies: Induction of shape selectivity in macaque frontal eye field." Society for Neuroscience, San Diego, CA, November 2018.
10. Reppert TR, Heitz RP, and Schall JD. "Proactive control and performance monitoring of speed-accuracy tradeoff by supplementary eye field." 6th Workshop on the Computational Properties of Prefrontal Cortex, Nashville, TN, October 2018.
11. Reppert TR, Lowe KA, and Schall JD. "Effects of visual search target-distractor congruence on stimulus-response mapping in macaques: Saccade timing and vigor." Vision Sciences Society, St. Pete Beach, FL, May 2018.
12. Lowe KA, Reppert TR, and Schall JD. "Effects of visual search target-distractor congruence on stimulus-response mapping in macaques: Performance strategies." Vision Sciences Society, St. Pete Beach, FL, May 2018.
13. Reppert TR, Servant M, Heitz RP, and Schall JD. "Neural mechanisms of speed-accuracy tradeoff of visual search: Saccade vigor, targeting errors, superior colliculus and frontal eye field." Society for Neuroscience, Washington, DC, November 2017.
14. Reppert TR, Ramamoorthy A, Komogortsev O, and Shadmehr R. "A shared mechanism for control of vigor in saccades, reaching, and head movements." Society for Neuroscience, San Diego, CA, November 2016.
15. Reppert TR, Lempert KM, Glimcher PW, and Shadmehr R. "Modulation of vigor during a temporal discounting task." Society for Neuroscience, Chicago, IL, October 2015.
16. Reppert TR, Lempert KM, Glimcher PW, and Shadmehr R. "Modulation of vigor during decision making." Society for the Neural Control of Movement, Charleston, SC, April 2015.
17. Reppert TR, Vaswani P, and Shadmehr R. "Vigor of saccades changes as a function of positive and negative reward rate prediction error." Society for Neuroscience, New Orleans, LA, October 2012.
18. Reppert TR, Haith AM, and Shadmehr R. "Rate of reward determines human saccade velocities." Society for Neuroscience, Washington, DC, November 2011.
19. Reppert TR. "Extending the patched-conic approximation to the restricted four-body problem." Jornadas de Trabajo en Mecánica Celeste, Jaca, Spain, 2006.

PROFESSIONAL SERVICE: MANUSCRIPT REVIEW

Reviewer for *Journal of Neurophysiology*, *PLOS Computational Biology*, *Nature Scientific Reports*, *eNeuro*

PROFESSIONAL AFFILIATIONS

2017- Vision Sciences Society

2011- Society for Neuroscience