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### ACADEMIC POSITIONS

<b>Associate Professor</b> , Purdue University	2018-present
<b>Assistant Professor</b> , Purdue University	2013-2018
<b>Assistant Professor</b> , Indiana University Purdue University Columbus	2011-2013
<b>Post-doctoral researcher</b> , Georgia Tech	2009-2011

### EDUCATION

<b>PhD</b> , Georgia Tech, Experimental Psychology, Minor: Quantitative	2009
<b>MS</b> , Georgia Tech, Experimental Psychology	2006
<b>BA</b> , Wake Forest University, Psychology w/Honors, Minor: Neuroscience	2003

### TEACHING EXPERIENCE

#### **Instructor, Purdue**

Augmenting Human Cognition, Complex Cognitive Processes, Introduction to Cognitive Psychology, Introduction to Research Methods in Psychology, Honors Research Seminar I, Honors Research Seminar II, Honors Research Seminar III

#### **Instructor, IUPUC**

Cognition, Learning, Psychology as a Biological Science, Capstone Lab in Psychology, Introductory Lab in Psychology, Readings & Research in Psychology

#### **Instructor, Georgia Institute of Technology**

General Psychology, Human Development, Statistical Analysis I Lab [Graduate]

### FUNDING

#### **1. Office of Naval Research Multi-University Research Initiative (MURI) Sep 2023-Aug 2026**

*Understanding and Building Overall Cognitive Capability through Attention Control*

Co-PI with R. Engle (PI) and E. Miller, E. Vogel, M. Rosenberg, & K. Fenn

#### **2. Purdue Health and Human Sciences**

Jun 2021-Aug 2023

*Action Video Game Training Effects on Cognition in Middle-aged Adults*

PI

#### **3. NSF**

Feb 2021-Jan 2024

*Collaborative Research: Improving Worker Safety by Understanding Risk Compensation as a Latent Precursor of At-risk Decisions*

Co-PI with S. Hasanzadeh (PI) and B. Esmaeili (co-PI)

#### **4. NSF**

Sep 2020-May 2021

*C-Accel Phase 2: B1 (Future Jobs and AI): Skill-XR: An Affordable and Scalable X-Reality (XR) Platform for Skills Training and Analytics in Manufacturing Workforce Education*

Co-PI with K. Ramani (PI) and K. Pepler, N. Elmqvist, & A. Quinn (co-PIs)

- 5. NSF** Sep 2019-May 2020; no-cost ext. until May 2021  
*C-Accel Phase 1: Collaborative Research: Skill-LeARn: Affordable augmented reality platform for scaling up manufacturing workforce, skilling, and education*  
 Co-PI with K. Ramani (PI) and D. Ebert, K. Peppler, & S. Zhang (co-PIs)
- 6. NSF** Oct 2018-Sept 2022; no-cost ext. until Sept 2023  
*FW-HTF: Collaborative Research: Pre-skilling workers, understanding labor force implications and designing future factory human-robot workflows using a physical simulation platform*  
 Co-PI with K. Ramani (PI) and S. Nof, A. Quinn, K. Peppler, & D. Acemoglu (co-PIs)
- 7. NSF** Aug 2016-Jul 2019; no-cost ext. until Jul 2022  
*Collaborative Research: Testing individualized cognitive training interventions based on a multifaceted theory of working memory*  
 PI with N. Unsworth and G. Brewer (co-PIs)
- 8. Allied Milk Producers** Aug 2016-May 2017  
*Nutritional intervention for repetitive subconcussive events*  
 Co-Investigator with E. Nauman (PI) and T. Talavage (co-investigator)
- 9. NIH/NIAAA** Aug 2014-Jul 2019  
*Behavioral disinhibition in early-onset alcoholism*  
 Co-Investigator with P. Finn (PI) and J. Busemeyer (co-investigator)
- 10. University of Maryland Center for Advanced Study of Language** Feb 2013-Jul 2013  
*The unitary versus non-unitary nature of executive functions and their contributions to cognition in the language*
- 11. Office of Naval Research subcontract** Jul 2012-Jul 2015  
*Which competencies can be enhanced by working memory training?*  
 Subcontract with R. Engle (PI)

PUBLICATIONS (\*indicates publication in which I am corresponding author; <sup>1</sup>indicates undergrad student; <sup>2</sup>indicates grad student)

1. Hélie, S., Lim, L. X., Adkins, M., & **Redick, T. S.** (2023). A computational model of prefrontal and striatal interactions in perceptual category learning. *Brain and Cognition, 168*, 105970. doi: 10.1016/j.bandc.2023.105970
2. Chidambaram, S., Reddy, S. S., Rumble, M., Ipsita, A., Villanueva, A, **Redick, T.**, Stuerzlinger, W., & Ramani, K. (2022). EditAR: A Digital twin authoring and editing environment to create instructional content for AR/VR and video media. *Proceedings of the 2022 IEEE International Symposium on Mixed and Augmented Reality (ISMAR)*, 1-10. doi: 10.1109/ISMAR55827.2022.00048
3. Finn, P., Nemes, L., Bailey, A., Gunn, R. L., Wiemers<sup>2</sup>, E. A., & **Redick, T. S.** (2022). The effects of working memory versus adaptive visual search control training on executive cognitive function. *Journal of Cognitive Enhancement, 6*, 327-339. doi: 10.1007/s41465-022-00241-y
4. Ipsita, A., Erickson, L., Dong, Y., Huang, J., Bushinski, A. K., Saradhi, S., Villanueva, A. M., Peppler, K. A., **Redick, T. S.**, & Ramani, K. (2022). Towards modeling of virtual reality

welding simulators to promote accessible and scalable training. *Proceedings of the 2022 CHI Conference on Human Factors in Computing Systems*, 1-21.

5. Villanueva, A., Liu, Z., Kitaguchi, Y., Zhu, Z., Peppler, K., **Redick, T.**, & Ramani, K. (2021). Towards modeling of human skilling for electrical circuitry using augmented reality applications. *International Journal of Educational Technology in Higher Education*, 18, 39. doi: 10.1186/s41239-021-00268-9
6. Chidambaram, S., Huang, H., He, F., Qian, X., Villanueva, A. M., **Redick, T. S.**, Stuerzlinger, W., & Ramani, K. (2021). ProcessAR: An augmented reality-based tool to create in-situ procedural 2D/3D AR instructions. *DIS '21: Proceedings of the 2021 Designing Interactive Systems (DIS) Conference*, 1-16. doi: 10.1145/3461778.3462126
7. Ruiz, Y., MacDermid Wadsworth, S. M., Elias, C., Marceau, K., Purcell, M. L., **Redick, T. S.**, Richards, E. A., & Schlesinger-Devlin, E. (2020). Ultra-rapid development and deployment of a family resilience program during the COVID-19 pandemic: Lessons learned from *Families Tackling Tough Times Together*. *Journal of Military, Veteran and Family Health*, 6(S2), 35-43. doi: 10.3138/jmvfh-6.s2-CO19-0013
8. Villanueva, A., Zhu, Z., Liu, Z., Peppler, K., **Redick, T.**, & Ramani, K. (2020). Meta-AR-App: An authoring platform for collaborative augmented reality in STEM classrooms. *CHI '20: Proceedings of the 2020 CHI Conference on Human Factors in Computing Systems*, 1-14. doi: 10.1145/3313831.3376146
9. \***Redick, T. S.**, Wiemers<sup>2</sup>, E. A., & Engle, R. W. (2020). The role of proactive interference in working memory training and transfer. *Psychological Research*, 84, 1635-1654. doi: 10.1007/s00426-019-01172-8
10. Martin, J. D., Shipstead, Z., Harrison, T. L., **Redick, T. S.**, Bunting, M. F., & Engle, R. W. (2020). The role of maintenance and disengagement in predicting reading comprehension and vocabulary learning. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 46, 140-154. doi: 10.1037/xlm0000705
11. \***Redick, T. S.** (2019). The hype cycle of working memory training. *Current Directions in Psychological Science*, 28, 423-429. doi: 10.1177/0963721419848668
12. Wiemers<sup>2</sup>, E. A., & **Redick, T. S.** (2019). Task manipulation effects on the relationship between working memory and go/no-go task performance. *Consciousness and Cognition*, 71, 39-58. doi: 10.1016/j.concog.2019.03.006
13. Wiemers<sup>2</sup>, E. A., **Redick, T. S.**, & Morrison, A. B. (2019). The influence of individual differences in cognitive ability on working memory training gains. *Journal of Cognitive Enhancement*, 3, 174-185. doi: 10.1007/s41465-018-0111-2
14. Wiemers<sup>2</sup>, E. A., & **Redick, T. S.** (2019). The influence of thought probes on performance: Does the mind wander more if you ask it?. *Psychonomic Bulletin & Review*, 26, 367-373. doi: 10.3758/s13423-018-1529-3

15. Gunn, R. L., Gerst, K. R., Wiemers<sup>2</sup>, E. A., **Redick, T. S.**, & Finn, P. R. (2018). Predictors of effective working memory training in those with alcohol use disorders. *Alcoholism: Clinical & Experimental Research*, *42*, 2432-2441. doi: 10.1111/acer.13892
16. Wiemers<sup>2</sup>, E. A., & **Redick, T. S.** (2018). Working memory capacity and intra-individual variability of proactive control. *Acta Psychologica*, *182*, 21-31. doi: 10.1016/j.actpsy.2017.11.002
17. Foster, J. L., Harrison, T. L., Hicks, K. L., Draheim, C., **Redick, T. S.**, & Engle, R. W. (2017). Do the effects of working memory training depend on baseline ability level? *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *43*, 1677-1689. doi: 10.1037/xlm0000426
18. Christopher<sup>2</sup>, E. A., & **Redick, T. S.** (2017). Working memory. In V. Zeigler-Hill & T. Shackelford (Eds.), *Encyclopedia of Personality and Individual Differences*. Springer. doi: 10.1007/978-3-319-28099-8\_1039-1
19. \***Redick, T. S.**, Unsworth, U., Kane, M. J., & Hambrick, D. Z. (2017). Don't shoot the messenger: Still no evidence that videogame experience is related to cognitive abilities – A reply to Green et al. (2017). *Psychological Science*, *28*, 683-686. doi: 10.1177/0956797617698527
20. Unsworth, N., & **Redick, T. S.** (2017). Working memory and intelligence. In J. Wixted (Ed.), *Cognitive Psychology of Memory, Vol. 2 of Learning and Memory: A Comprehensive Reference, 2nd edition*, Byrne, J. H. (ed.). pp. 163-180. Oxford: Academic Press. <http://dx.doi.org/10.1016/B978-0-12-809324-5.21041-9>
21. \***Redick, T. S.** (2016). On the relation of working memory and multitasking: Memory span and synthetic work performance. *Journal of Applied Research in Memory and Cognition*, *5*, 401-409. doi: 10.1016/j.jarmac.2016.05.003
22. \***Redick, T. S.**, Shipstead, Z., Meier, M. E., Montroy, J. J., Hicks, K. L., Unsworth, N., Kane, M. J., Hambrick, D. Z., & Engle, R. W. (2016). Cognitive predictors of a common multitasking ability: Contributions from working memory, attention control, and fluid intelligence. *Journal of Experimental Psychology: General*, *145*, 1473-1492. doi: 10.1037/xge0000219
23. McCabe, J. A., **Redick, T. S.**, & Engle, R. W. (2016). Brain training pessimism, but applied memory optimism. *Psychological Science in the Public Interest*, *17*, 187-191. doi: 10.1177/1529100616664716
24. \*Melby-Lervåg, M., **Redick, T. S.**, & Hulme, C. (2016). Working memory training does not improve performance on measures of intelligence or other measures of “far transfer”: Evidence from a meta-analytic review. *Perspectives on Psychological Science*, *11*, 512-534. doi: 10.1177/1745691616635612 (all authors contributed equally)
25. Richmond, L., **Redick, T. S.**, & Braver, T. (2015). Remembering to prepare: The benefits (and costs) associated with high working memory capacity. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *41*(6), 1764-1777. doi:10.1037/xlm0000122

26. \***Redick, T. S.**, Shipstead, Z., Wiemers<sup>2</sup>, E. A., Melby-Lervåg, M., & Hulme, C. (2015). What's working in working memory training? An educational perspective. *Educational Psychology Review*, *27*, 617-633. doi:10.1007/s10648-015-9314-6
27. Oswald, F. O., McAbee, S. T., **Redick, T. S.**, & Hambrick, D. Z. (2015). The development of a short domain-general measure of working memory capacity. *Behavior Research Methods*, *47*, 1343-1355. doi:10.3758/s13428-014-0543-2
28. Unsworth, N., **Redick, T. S.**, McMillan, B. D., Hambrick, D. Z., Kane, M. J., & Engle, R. W. (2015). Is playing video games related to cognitive abilities? *Psychological Science*, *26*, 759-774. doi:10.1177/0956797615570367
29. Foster, J. L., Shipstead, Z., Harrison, T. L., Hicks, K. L., **Redick, T. S.**, & Engle, R. W. (2015). Shortened complex span tasks can reliably measure working memory capacity. *Memory & Cognition*, *43*, 226-236. doi:10.3758/s13421-014-0461-7
30. \***Redick, T. S.** (2015). Working memory training and interpreting interactions in intelligence interventions. *Intelligence*, *50*, 14-20. doi:10.1016/j.intell.2015.01.014
31. \***Redick, T. S.**, & Webster, S. B. (2014). Videogame interventions and spatial ability interactions. *Frontiers in Human Neuroscience*, *8*, 183. doi:10.3389/fnhum.2014.00183
32. \*Armand<sup>1</sup>, J. T., **Redick, T. S.**, & Poulsen, J. R. (2014). Task-specific performance effects with different numeric keypad layouts. *Applied Ergonomics*, *45*, 917-922. doi:10.1016/j.apergo.2013.11.008
33. \***Redick, T. S.** (2014). Cognitive control in context: Working memory capacity and proactive control. *Acta Psychologica*, *145*, 1-9. doi:10.1016/j.actpsy.2013.10.010
34. Harrison, T. L., Shipstead, Z., Hicks, K. L., Hambrick, D. Z., **Redick, T. S.**, & Engle, R. W. (2013). Working memory training may increase working memory capacity but not fluid intelligence. *Psychological Science*, *24*, 2409-2419. doi:10.1177/0956797613492984
35. \***Redick, T. S.**, & Lindsey, D. R. B. (2013). Complex span and n-back measures of working memory: A meta-analysis. *Psychonomic Bulletin & Review*, *20*, 1102-1113. doi:10.3758/s13423-013-0453-9
36. \***Redick, T. S.**, Shipstead, Z., Harrison, T. L., Hicks, K. L., Fried, D. E., Hambrick, D. Z., Kane, M. J., & Engle, R. W. (2013). No evidence of intelligence improvement after working memory training: A randomized, placebo-controlled study. *Journal of Experimental Psychology: General*, *142*, 359-379. doi:10.1037/a0029082
37. \***Redick, T. S.**, Unsworth, N., Kelly, A. J., & Engle, R. W. (2012). Faster, smarter? Working memory capacity and perceptual speed in relation to fluid intelligence. *Journal of Cognitive Psychology*, *24*, 844-854. doi:10.1080/20445911.2012.704359
38. Shipstead, Z., **Redick, T. S.**, Hicks, K. L., & Engle, R. W. (2012). The scope and control of attention as separate aspects of working memory. *Memory*, *20*, 608-628. doi:10.1080/09658211.2012.691519

39. Shipstead, Z., **Redick, T. S.**, & Engle, R. W. (2012). Is working memory training effective? *Psychological Bulletin*, *138*, 628-654. doi:10.1037/a0027473
40. \***Redick, T. S.**, Broadway, J. M., Meier, M. E., Kuriakose, P. S., Unsworth, N., Kane, M. J., & Engle, R. W. (2012). Measuring working memory capacity with automated complex span tasks. *European Journal of Psychological Assessment*, *28*, 164-171. doi:10.1027/1015-5759/a000123
41. Mayers, L. B., & **Redick, T. S.** (2012). Authors' reply to "Response to 'Clinical utility of ImPACT assessment for post-concussion return-to-play counseling: Psychometric issues'". *Journal of Clinical and Experimental Neuropsychology*, *34*, 435-442. doi:10.1080/13803395.2012.667790
42. Mayers, L. B., & **Redick, T. S.** (2012). Clinical utility of ImPACT assessment for postconcussion return-to-play counseling: Psychometric issues. *Journal of Clinical and Experimental Neuropsychology*, *34*, 235-242. doi:10.1080/13803395.2011.630655
43. Unsworth, N., **Redick, T. S.**, Spillers, G. J., & Brewer, G. A. (2012). Variation in working memory capacity and cognitive control: Goal maintenance and microadjustments of control. *Quarterly Journal of Experimental Psychology*, *65*, 326-355. doi:10.1080/17470218.2011.597865
44. \***Redick, T. S.**, & Engle, R. W. (2011). Integrating working memory capacity and context-processing views of cognitive control. *Quarterly Journal of Experimental Psychology*, *64*, 1048-1055. doi:10.1080/17470218.2011.577226
45. Mayers, L. B., **Redick, T. S.**, Chiffrieller, S. H., Simone, A. N., & Terraforte, K. R. (2011). Working memory capacity among collegiate student-athletes: Effect of sport-related head contacts, concussions, and working memory demands. *Journal of Clinical and Experimental Neuropsychology*, *33*, 532-537. doi:10.1080/13803395.2010.535506
46. \***Redick, T. S.**, Calvo, A., Gay<sup>1</sup>, C. E., & Engle, R. W. (2011). Working memory capacity and go/no-go task performance: Selective effects of updating, maintenance, and inhibition. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *37*, 308-324. doi:10.1037/a0022216
47. Unsworth, N., **Redick, T. S.**, Lakey, C. E., & Young, D. L. (2010). Lapses in sustained attention and their relation to executive control and fluid abilities: An individual differences investigation. *Intelligence*, *38*, 111-122. doi:10.1016/j.intell.2009.08.002
48. Broadway, J. M., **Redick, T. S.**, & Engle, R. W. (2010). Working memory capacity: Self-control is (in) the goal. In R. Hassin, K. N. Ochsner, & Y. Trope (Eds.), *Self control in society, mind, and brain* (pp. 163-173). Oxford University Press: New York, NY. doi:10.1093/acprof:oso/9780195391381.003.0009
49. Shipstead, Z. M., **Redick, T. S.**, & Engle, R. W. (2010). Does working memory training generalize? *Psychologica Belgica*, *50*, 245-276. doi:10.5334/pb-50-3-4-245
50. Unsworth, N., **Redick, T. S.**, Heitz, R. P., Broadway, J. M., & Engle, R. W. (2009). Complex working memory span tasks and higher-order cognition: A latent-variable analysis of the

relationship between processing and storage. *Memory*, 17, 635-654.  
doi:10.1080/09658210902998047

51. Barch, D. M., Berman, M. G., Engle, R., Jones, J. H., Jonides, J., MacDonald, A., III, Nee, D. E., **Redick, T. S.**, & Sponheim, S. R. (2009). CNTRICS final task selection: Working memory. *Schizophrenia Bulletin*, 35, 136-152. doi:10.1093/schbul/sbn153
52. \***Redick, T. S.**, Heitz, R. P., & Engle, R. W. (2007). Working memory capacity and inhibition: Cognitive and social consequences. In D. S. Gorfein, & C. M. MacLeod (Eds.), *Inhibition in cognition* (pp. 125-142). Washington, DC: American Psychological Association.  
doi:10.1037/11587-007
53. \***Redick, T. S.**, & Engle, R. W. (2006). Working memory capacity and Attention Network Test performance. *Applied Cognitive Psychology*, 20, 713-721. doi:10.1002/acp.1224
54. Heitz, R. P., **Redick, T. S.**, Hambrick, D. Z., Kane, M. J., Conway, A. R. A., & Engle, R. W. (2006). Working memory, executive function, and general fluid intelligence are not the same. *Behavioral and Brain Sciences*, 29, 134-135. doi:10.1017/S0140525X06319036

#### SYMPOSIUM

- Redick, T. S. (2022, May). Talk given as part of the *Working with Robots: Artificial Intelligence in the Workplace* symposium at the annual meeting of the Association of Psychological Science, Chicago, IL.
- Redick, T. S., & Wiemers<sup>2</sup>, E. A., (2021, March). Talk given as part of the *Society for Experimental Psychology and Cognitive Science (SEPCS) Symposium in Honor of Mentor Award Recipient Randall W. Engle* at the annual meeting of the Southeastern Psychological Association, New Orleans, LA.
- Redick, T. S. (2020, November). *Domain generality and specificity of verbal working memory training*. Talk given as part of the *Verbal Working Memory: Domain General or Domain Specific?* symposium at the annual meeting of the Psychonomic Society, virtual.
- Redick, T. S. (2018, April). *Test-retest reliability of the Immediate Post-concussion Assessment and Cognitive Testing*. Talk given as part of the *Assessing Cognition after Sports-Related Concussion* symposium at the annual meeting of the Midwestern Psychological Association, Chicago, IL.
- Redick, T. S. (2017, May). *Is working memory training working, and for whom?* Talk given as part of the *Do "brain-training" programs work?* symposium at the annual meeting of the Association of Psychological Science, Boston, MA.
- Redick, T. S. (2016, May). *Action video game training produces near but not far transfer*. Talk given as part of the *Skill Acquisition and Expertise* symposium at the annual meeting of the Midwestern Psychological Association, Chicago, IL.
- Redick, T. S. (2016, April). *What's working in working memory training?* Talk given as part of the *Taking Stock of Cognitive Training: Theory, Neural Mechanisms and Application* symposium at the annual meeting of the Cognitive Neuroscience Society, New York, NY.

Redick, T. S., & Wiemers, E. A. (2016, March). *What's working in working memory training?* Talk given as part of the *Working Memory* symposium at the annual meeting of the Southern Society for Philosophy and Psychology, Louisville, KY.

#### INVITED TALKS

Southern Society for Philosophy and Psychology	3/11/23
Southeastern Workers in Memory (senior keynote)	3/19/21
Mid-America Undergraduate Psychology Research Conference (keynote)	4/6/19
DePauw University	11/16/17
Indiana University	3/9/16
University of Illinois Urbana Champaign	1/29/16
Charles River Association of Memory (keynote; held at Harvard University)	12/11/14
Indiana University	11/8/13
University of Notre Dame	10/3/11
Georgia State University	10/5/09

#### HONORS AND AWARDS

Purdue University Faculty Scholar	2023-2028
Fellow, Midwestern Psychological Association	
Fellow, Psychonomic Society	
College of Health and Human Sciences Research Renewal Award	Spring 2021
College of Health and Human Sciences Wayne and Helen Townsend Writing Excellence Fund	2021
Purdue University Corps of Engagement Award for Families Tackling Tough Times Together program, Steering Committee member	2021
College of Health and Human Sciences, Faculty Engagement Award for Families Tackling Tough Times Together program, Steering Committee member	2021
Purdue University Seed for Success Award for Excellence in Research	2019, 2020
College of Health and Human Sciences PRF International Travel Grant Award	2018-19
College of Health and Human Sciences PRF Summer Faculty Grant Award	Summer 2018
James C. Naylor Award for Teaching Excellence in Psychology	2017
Faculty Development Award, IUPUC	Fall 2012
Release Time for Research Award, IUPUI OVCR	Summer 2012

#### ASSOCIATE EDITOR

Journal of Experimental Psychology: General	2020-2021
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#### EDITORIAL BOARD

Journal of Experimental Psychology: Human Perception and Performance	2023-current
Journal of Intelligence	2023-current
Intelligence	2018-2022
Journal of Cognition	2017-2021
Journal of Applied Research in Memory and Cognition	2016-2021

#### MENTORSHIP

##### **Graduate Students**

Alexa Bushinski (in progress)  
 Amanda Fordyce (in progress)  
 Liz Wiemers (PhD 2020; MS, 2016)  
 Eddie Christopher (PhD, 2019)



**NIH Postbaccalaureate Research Education Program (PREP)**

Larissa Olivas (2021-22)

**Undergraduate Research-Focused Honors Program**

Lauren Schiro (2021-22)

Jacob Strachan (2021-22)

Trishla Gandhi (2020-21)

Laura Long (2017-18)

**Undergraduate Independent Senior Research**

Jennie Swanson (2019-20)

Amanda Fordyce (2019-20)

Katherine Goulden (2018-19)

Joan Kim (2014)

**Undergraduate Louis Stokes Alliance for Minority Participation Program**

Trishla Gandhi (2020-21)

**Undergraduate Summer Research Opportunity Program**

Jenny Walker (University of Central Florida, 2014; subsequently graduate student at Georgia Tech)

Shea Duarte (California State Polytechnic University, Pomona, 2018; subsequently graduate student at University of California Davis)

**Visiting Undergraduate Research Assistants from Other Universities**

Katelyn Haase, Indiana State University, fall 2018

Mayesha Awal, Georgetown University, summer 2018

Melissa Kerfoot, Franklin College, summer 2015

**SERVICE****Field**

Council member, Midwestern Psychological Association 2020-2023

Program committee member, Midwestern Psychological Association annual meeting 2019-2021

**Purdue**

Committee member, Psychological Sciences department head search 2023-current

Undergraduate committee, Psychological Sciences 2023-current;  
spring 2020;  
2017-2019Advisory committee, Psychological Sciences 2023-current;  
2017-2020Director, Research Focused Honors Program 2023-2024;  
2021-2022;  
2017-2018

Committee member, Psychological Sciences cognitive neuroscience faculty search 2022

Committee member, Psychological Sciences computational cognitive faculty search 2021

Diversity, Equity, and Inclusion committee, Psychological Sciences 2020-2023

Graduate committee, Psychological Sciences spring 2021

Research Advisory Committee, Purdue HHS 2020-2021

Chair, Psychological Sciences department cognitive faculty search 2020-2021

Communications committee, Psychological Sciences	2017-2023
Faculty advisor, Purdue Undergraduates in Psychological Research club	2017-current
Military Programs committee, Purdue University	2015-2021
Families Tackling Tough Times Together Steering committee, Purdue HHS	2020
Committee member, Psychological Sciences department head search	2020
Cognitive area colloquium coordinator	spring 2020
Research-focused honors program evaluation committee	2018
Committee member, Psychological Sciences department head search	2016
Human subjects advisory committee, Psychological Sciences	2015-2017
Graduate Teaching Assistant Orientation workshop speaker	2015, 2016
PSY 120 Hybrid lecture contributor	2015
Committee member, Psychological Sciences Autism cluster faculty search	2014

### IUPUC

Committee member, Mental health counseling faculty search	2013
Committee member, Psychology faculty search	2013
Committee member, Science advisor search	2012
Faculty Senate	2012-2013
Ivy Tech advisory board	2012-2013
Faculty co-advisor, Psych Club	2011-2013

### PROFESSIONAL PRESENTATIONS (<sup>1</sup>indicates undergrad student; <sup>2</sup>indicates grad student)

Bushinski<sup>2</sup>, A. K., & **Redick, T. S.** (2022, April). *Spatial Memory Span Tasks: An Examination of List-Length Effects*. Talk given at the annual meeting of the Midwestern Psychological Association.

Fordyce<sup>2</sup>, A., & **Redick, T. S.** (2022, April). *Individual Differences in Working Memory and Retrieval Practice Benefits*. Talk given at the annual meeting of the Midwestern Psychological Association.

Olivas, L., & **Redick, T. S.** (2022, April). *Pre-registered Replication of Smartphone Presence Effects on Cognition*. Poster given at the annual meeting of the Midwestern Psychological Association.

Fordyce<sup>2</sup>, A., **Redick, T. S.**, & Karpicke, J. D. (2021, November). *Individual differences in working memory ability and the benefit of retrieval practice*. Poster given at the annual meeting of the Psychonomic Society (virtual).

Bushinski<sup>2</sup>, A. K., **Redick, T. S.** (2021, November). *Spatial memory span task: An examination of list-length effects*. Poster given at the annual meeting of the Psychonomic Society (virtual).

Olivas, L., & **Redick, T. S.** (2021, November). *Cognitive consequences of smartphone presence and separation*. Poster given at the Annual Biomedical Research Conference for Minority Students (virtual).

Wiemers<sup>2</sup>, E. A., & **Redick, T. S.** (2021, April). *Trial level flexibility in use of cognitive control*. Talk given at the annual meeting of the Midwestern Psychological Association, Chicago, IL.  
†Rescheduled from 2020 due to COVID-19

- Fordyce<sup>2</sup>, A., & **Redick, T. S.** (2021, April). *The role of modality and study-test interval in false recognition*. Poster given at the annual meeting of the Midwestern Psychological Association, virtual.
- Gandhi<sup>1</sup>, T., & **Redick, T. S.** (2021, April). *Cognitive consequences of smartphone presence and separation*. Poster given at the annual meeting of the Psi Chi section of the Midwestern Psychological Association, virtual.
- Gandhi<sup>1</sup>, T., & **Redick, T. S.** (2021, April). *Cognitive consequences of smartphone presence and separation*. Talk given at the Purdue Undergraduate Research Conference, West Lafayette, IN (virtual).
- Egler<sup>1</sup>, A., & **Redick, T. S.** (2021, April). *No Relationship between Working Memory & Dopamine Function as Measured by Spontaneous Eyeblink Rate in Healthy Young Adults*. Poster given at the at the Purdue Undergraduate Research Conference, West Lafayette, IN (virtual).
- von Bastian et al... (2020, November). *Advancing the understanding of individual differences in attentional control: Theoretical, methodological, and analytical considerations*. Talk given at the annual meeting of the Psychonomic Society, virtual.
- Swanson<sup>1</sup>, J. & **Redick, T. S.** (2020, April). *Concussion training, management, and assessment practices at Midwestern universities*. Poster given at the 18th Psychology Undergraduate Research Conference, West Lafayette, IN (virtual).
- Wiemers<sup>2</sup>, E. A., & **Redick, T. S.** (2019, November). *Action video game training produces near transfer only*. Poster given at the annual meeting of the Psychonomic Society, Montréal, QC.
- Wingert, K. M., **Redick, T. S.**, & Brewer, G. A. (2019, November). *A mechanistic account of the relation between working memory capacity and fluid intelligence*. Poster given at the annual meeting of the Psychonomic Society, Montréal, QC.
- Wiemers<sup>2</sup>, E. A., & **Redick, T. S.** (2019, April). *The relationship between working memory and enumeration with distraction*. Talk given at the annual meeting of the Midwestern Psychological Association, Chicago, IL.
- Christopher<sup>2</sup>, E. A., & **Redick, T. S.** (2019, April). *Measuring active monitoring and preparation with pupillometry*. Talk given at the annual meeting of the Midwestern Psychological Association, Chicago, IL.
- Goulden<sup>1</sup>, K., & **Redick, T. S.** (2019, April). *Working memory and reasoning: Analyses of errors and strategies in number series performance*. Poster given at the Purdue Undergraduate Research Conference, West Lafayette, IN.
- Wiemers<sup>2</sup>, E. A., & **Redick, T. S.** (2018, November). *The influence of thought probes on performance: Does the mind wander more if you ask it?* Poster given at the annual meeting of the Psychonomic Society, New Orleans, LA.
- Christopher<sup>2</sup>, E. A., & **Redick, T. S.** (2018, November). *Are saccadic tasks compatible with a manual response mode?* Poster given at the annual meeting of the Psychonomic Society, New Orleans, LA.

Goulden<sup>1</sup>, K., & **Redick, T. S.** (2018, November). *Working memory and reasoning: A meta-analysis and investigation of the relationship between complex span tasks and number series*. Poster given at the Purdue Fall Undergraduate Research Exposition, West Lafayette, IN.

**Redick, T. S.**, Wiemers<sup>2</sup>, E. A., & Morrison, A. B. (2018, July). *The relationship between baseline cognitive ability and working memory training improvement*. Talk given at the annual meeting of the International Society for Intelligence Research, Edinburgh, UK.

Long<sup>1</sup>, L. F., Su, R., & **Redick, T. S.** (2018, April). *"Tokens" in teams? Predictors of temporal changes in the perception of women in engineering*. Poster given at the 16th Psychology Undergraduate Research Conference, West Lafayette, IN.

Wiemers<sup>2</sup>, E. A., & **Redick, T. S.** (2018, April). *Individual differences in cognitive ability affect training improvements*. Talk given at the annual meeting of the Midwestern Psychological Association, Chicago, IL.

**Redick, T. S.**, Brewer, G. A., & Unsworth, N. (2017, November). *Working memory capacity and reading comprehension: A test of the multifaceted theory*. Talk given at the annual meeting of the Psychonomic Society, Vancouver, BC.

Zou, Y., Mao, X., Jang, I., Vike, N., Svaldi, D., **Redick, T.**, Leverenz, L., Nauman, E., Talavage, T., & Rispoli, J. (2017, October). *Short and long-term white matter microstructural differences in adolescent female soccer athletes*. Poster given at the annual meeting of the Biomedical Engineering Society, Phoenix, AZ.

Zou, Y., Jang, I., Vike, N., Poole, V., Shenk, T., Svaldi, D., **Redick, T.**, Leverenz, L., Nauman, E., Talavage, T., & Rispoli, J. (2017, October). *Abnormal white matter microstructure and cognitions in adolescent athletes with concussion history*. Poster given at the annual meeting of the Biomedical Engineering Society, Phoenix, AZ.

Zou, Y., Jang, I., Vike, N. L., **Redick, T. S.**, Leverenz, L. J., Nauman, E. A., Talavage, T. M., & Rispoli, J. V. (2017, June). *White matter microstructure in previously concussed adolescent athletes: Implications on cognition*. Poster given at the annual meeting of the Organization for Human Brain Mapping, Vancouver, BC.

Fansher<sup>1</sup>, M., **Redick, T. S.**, & Helie, S. (2017, June). *Categorization system switching: The role of individual differences in executive function*. Poster given at the 6th Midwestern Cognitive Science Conference, Oxford, OH.

Gunn, R. L., Gerst, K. R., **Redick, T. S.**, & Finn, P. R. (2017, June). *Predictors of effective working memory training in those with alcohol use disorders: A preliminary analysis*. Poster given at the annual meeting of the Research Society on Alcoholism, Denver, CO.

Gerst, K. R., Gunn, R. L., **Redick, T. S.**, & Finn, P. R. (2017, June). *Far transfer effects of working memory training in those with alcohol use disorders: A preliminary analysis*. Poster given at the annual meeting of the Research Society on Alcoholism, Denver, CO.

Zou, Y., Mao, X., Jang, I., Vike, N. L., **Redick, T. S.**, Talavage, T. M., & Rispoli, J. V. (2017, April). *White matter microstructure in adolescent female soccer athletes: Diffusion MRI relations with years of high-school experience, concussion history, and cognitive measurements*. Poster given at the

annual meeting of the International Society for Magnetic Resonance in Medicine, Honolulu, HI.

Gletsu-Miller, N., Mischler, R. A., Armah, S. M., **Redick, T. S.**, Rosen, A. D., & Choi, J. N. (2017, April). *Improvement in fatigue, quality of life and cognitive function following oral iron supplementation for treatment of iron deficiency in patients who have had bariatric surgery*. Poster given at the annual meeting of the American Society for Nutrition, Experimental Biology, Chicago, IL.

Christopher<sup>2</sup>, E. A., & **Redick, T. S.** (2016, November). *Individual differences in working memory predict pro-saccade performance*. Poster given at the annual meeting of the Psychonomic Society, Boston, MA.

Wiemers<sup>2</sup>, E. A., & **Redick, T. S.** (2016, November). *Stimulus and decision type influence go/no-go performance*. Poster given at the annual meeting of the Psychonomic Society, Boston, MA.

Gunn, R. L., Gerst, K. R., **Redick, T. S.**, & Finn, P. R. (2016, June). *Examining the efficacy of working memory training in those with alcohol use disorders*. Poster given at the annual meeting of the Research Society on Alcoholism, New Orleans, LA.

Wiemers<sup>2</sup>, E. A., & **Redick, T. S.** (2016, May). *Working memory capacity relationships with perceptual and semantic go/no-go tasks*. Poster given at the annual meeting of the Association for Psychological Science, Chicago, IL.

**Redick, T. S.** (2015, November). *Mind the gap: Individual differences in verbal and nonverbal working memory as measured by complex span and n-back tasks*. Talk given at the annual meeting of the Psychonomic Society, Chicago, IL.

Wiemers<sup>2</sup>, E. A., & **Redick, T. S.** (2015, November). *Working memory capacity and dynamic cognitive control*. Poster given at the annual meeting of the Psychonomic Society, Chicago, IL.

**Redick, T. S.**, & Wiemers<sup>2</sup>, E. A. (2015, May). *The role of proactive interference in working memory training and transfer*. Poster given at the annual meeting of the Association for Psychological Science, New York, NY.

**Redick, T. S.** (2015, May). *The role of proactive interference in working memory training*. Talk given at the annual meeting of the Midwestern Psychological Association, Chicago, IL.

Wiemers<sup>2</sup>, E. A., & **Redick, T. S.** (2015, April). *Working memory capacity and practice-related proactive shift in cognitive control*. Poster given at the annual meeting of the Midwestern Psychological Association, Chicago, IL.

Walker, J. A., & **Redick, T. S.** (2015, April). *Individual differences in working memory capacity and reading comprehension of electronic texts*. Poster presented at the 8th annual Student Conference on Human Factors and Applied Psychology, Daytona Beach, FL.

**Redick, T. S.**, Melby-Lervåg, M., Hulme, C., & Grovak, A. (2014, November). *Does working memory training improve intelligence? A meta-analytic update*. Talk given at the annual meeting of the Psychonomic Society, Long Beach, CA.

- Harrison, T. L., Shipstead, Z., Hicks, K. L., Foster, J. L., Trani, A. N., Sloan, P. M., **Redick, T. S.**, Bunting, M. F., & Engle, R. W. (2014, November). *The relationship between prospective memory and cognitive abilities*. Poster given at the annual meeting of the Psychonomic Society, Long Beach, CA.
- Redick, T. S.**, McAbee, S. T., Oswald, F. L., & Hambrick, D. Z. (2014, November). *Validation of a short domain-general measure of working memory capacity*. Poster given at the annual meeting of the Society for Computers in Psychology, Long Beach, CA.
- Oswald, F. O., McAbee, S. T., **Redick, T. S.**, & Hambrick, D. Z. (2013, November). *The development of a short domain-general measure of working memory capacity*. Poster given at the annual meeting of the Psychonomic Society, Toronto, ON.
- Redick, T. S.**, & Lindsey, D. R. B. (2013, August). *A comparison of complex span and n-back measures of working memory*. Talk given at the annual meeting of the American Psychological Association, Honolulu, HI.
- Redick, T. S.**, & Lindsey, D. R. B. (2013, May). *Complex span and n-back measures of working memory: A meta-analysis*. Talk given at the annual meeting of the Midwestern Psychological Association, Chicago, IL.
- Richmond, L., **Redick, T. S.**, & Braver, T. (2012, November). *Working memory capacity influences strategic choice on a cognitive control task*. Poster given at the annual meeting of the Psychonomic Society, Minneapolis, MN.
- Harrison, T. L., Shipstead, Z., Hicks, K. L., **Redick, T. S.**, Hambrick, D. Z., & Engle, R. W. (2012, November). *Does working memory training improve working memory capacity?* Talk given at the annual meeting of the Psychonomic Society, Minneapolis, MN.
- Redick, T. S.** (2012, May). *Comparison of working memory predictors of multitasking*. Talk given at the annual meeting of the Midwestern Psychological Association, Chicago, IL.
- Redick, T. S.**, Shipstead, Z., Harrison, T. L., Hicks, K. L., Fried, D. E., Hambrick, D. Z., Kane, M. J., & Engle, R. W. (2011, November). *Generalization of working memory training to complex cognition?* Talk given at the annual meeting of the Psychonomic Society, Seattle, WA.
- Redick, T. S.**, Ahrens, A. N., Schwarb, H., Dulas, M. R., Schumacher, E. H., & Engle, R. W. (2011, April). *Functional MRI investigation of variation in working memory capacity: Looking forward or looking backward?* Poster given at the annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.
- Redick, T. S.** (2011, February). *Does executive attention mediate the relationship between working memory capacity and fluid intelligence?* Talk given at the annual meeting of the North Carolina Cognition Group, Greensboro, NC.
- Redick, T. S.**, Hambrick, D. Z., Kane, M. J., Unsworth, N., & Engle, R. W. (2010, December). *The role of executive attention in the link between working memory capacity and fluid intelligence*. Talk given at the annual meeting of the International Society for Intelligence Research, Washington, DC.

- Redick, T. S.**, Hambrick, D. Z., Kane, M. J., Unsworth, N., Shipstead, Z. M., & Engle, R. W. (2010, November). *WMC: Weighing up Multitasking and Cognition*. Talk given at the annual meeting of the Psychonomic Society, St. Louis, MO.
- Redick, T. S.**, & Engle, R. W. (2010, February). *Look forward, not backward: Working memory capacity and the distinction between proactive and reactive control*. Talk given at the annual meeting of the North Carolina Cognition Group, Winston-Salem, NC.
- Redick, T. S.**, & Engle, R. W. (2009, November). *Individual differences in working memory capacity and the distinction between proactive and reactive control*. Poster given at the annual meeting of the Psychonomic Society, Boston, MA.
- Redick, T. S.**, & Engle, R. W. (2009, March). *Updating and maintenance in working memory: Selective effects upon relationships with fluid intelligence*. Talk given at the annual meeting of the North Carolina Cognition Group, Durham, NC.
- Prebianca, G. V., Mota, M. B., & **Redick, T. S.** (2009, March). *Bilingual lexical access: Individual differences in working memory capacity and level of proficiency*. Poster given at the annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.
- Redick, T. S.** (2008, December). *Individual and age differences in working memory capacity, processing speed, and intelligence: Insight from eye-movement and psychometric analyses*. Talk given at the annual meeting of the International Society for Intelligence Research, Decatur, GA.
- Redick, T. S.**, Calvo, A., & Engle, R. W. (2008, November). *Working memory capacity, updating, and maintenance: Selective effects of interference upon relationships with fluid intelligence*. Poster given at the annual meeting of the Psychonomic Society, Chicago, IL.
- Engle, R. W., **Redick, T.**, Heitz, R., Smith, A., & Kelly, A. (2007, July). *Working memory capacity and speed of processing*. Talk given at the joint meeting of the Experimental Psychological Society and Psychonomic Society, Edinburgh, Scotland.
- Redick, T. S.**, Heitz, R. P., Aguilera Martinez, A., & Engle, R. W. (2006, November). *Working memory, processing speed, and fluid intelligence: An eye-movement analysis*. Poster given at the annual meeting of the Psychonomic Society, Houston, TX.
- Redick, T. S.**, Heitz, R. P., Aguilera Martinez, A., & Engle, R. W. (2006, May). *Working memory, processing speed, and intelligence: An eye movement analysis*. Talk given at the annual meeting of the Midwestern Psychological Association, Chicago, IL.
- Redick, T. S.**, & Engle, R. W. (2006, March). *Working memory capacity and context-processing views of cognitive control*. Poster given at the annual meeting of the Southeastern Psychological Association, Atlanta, GA.
- Redick, T.**, & Engle, R. W. (2005, November). *Context maintenance and working memory capacity*. Poster given at the annual meeting of the Psychonomic Society, Toronto, ON.
- Hairston, W. D., Laurienti, P. J., Burdette, J. H., Brown, C. L., **Redick, T. S.**, Mishra, G., & Wallace, M. T. (2003, November). *Multisensory localization performance under conditions of degraded*

*visual acuity*. Poster given at the annual meeting of Society for Neuroscience, New Orleans, LA.