BROOKE N. MACNAMARA

703 Third Street 765.496.4705 West Lafayette, IN 47907 bmacnama@purdue.edu

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ACADEMIC APPOINTMENTS

Purdue University	
Associate Professor (with tenure), Psychological Sciences	2024 – present
Case Western Reserve University	
Faculty Researcher	2024 - 2025
Associate Professor (with tenure), Psychological Sciences	2019 - 2024
Assistant Professor, Psychological Sciences	2014 – 2019
EDUCATION	
Princeton University	
PhD, Psychology	2014
Princeton University	
MA, Psychology	2010
Union Institute & University	
MA, Interdisciplinary Studies: Interpreting Theory & Cognition	2007
Columbia College Chicago	
BA, American Sign Language-English Interpretation	2001

EXTERNAL FUNDING

Army Research Institute	\$1,034,940.00
Understanding change in performance:	2022 - 2025
The roles of cognitive abilities, "hot" cognition, and context	
Role: Principal Investigator	Status: Funded

National Science Foundation \$1,999,999.00

FW-HTF-R: *Impact of artificial intelligence aids on clinical skill* 2021 – 2025

acquisition, atrophy and adaptation

Role: Co-Investigator (PI: Soumya Ray)

Status: Funded

National Science Foundation \$150,000.00

FW-HTF-P: Clinical skill acquisition, retention and atrophy with 2020

artificial intelligence aids

Role: Co-Investigator (PI: Soumya Ray)

Status: Completed

National Science Foundation \$14,139.00

Doctoral dissertation research: A novel approach to investigate 2013 – 2015

psychological processes in language: Contrasting bilinguals and interpreters

Role: Recipient (Advisor: Andrew R. A. Conway)

Status: Completed

PUBLICATIONS

u = undergraduate student; g = graduate student; p = postdoctoral advisee [prereg] = preregistered; [open] = open data; [n/a] = no empirical data

Journal Articles

- 49. **Macnamara, B. N.**, & Burgoyne, A. P. (2025). Beliefs, behaviors, and the inferences that bind them: Scrutinizing the mechanism of action. *Psychological Inquiry*, *36*(1), 40–44. https://doi.org/10.1080/1047840X.2025.2482351 [n/a]
- 48. Burgoyne, A. P., Frank, D. J., & **Macnamara, B. N.** (2024). Which "working memory" are we talking about? Complex span tasks versus *N*-back. *Psychonomic Bulletin & Review, 32*, 1337–1351. https://doi.org/10.3758/s13423-024-02622-0 [open]
- 47. Müller, S. Morris-Binelli, K., Hambrick, D. Z., & Macnamara, B. N. (2024). Accelerating visual anticipation in sport through temporal occlusion training: A meta-analysis. *Sports Medicine*, 54, 2597–2606. https://doi.org/10.1007/s40279-024-02073-6
- 46. **Macnamara, B. N.**, ^gBerber, I., Çavuşoğlu, M. C., Krupinski, E., ^gNallapareddy, N., ^gNelson, N. E., Smith, P. J., Wilson-Delfosse, A. L., & Ray, S. (2024). Does using artificial intelligence assistance accelerate skill decay and hinder skill development without performers' awareness? *Cognitive Research: Principles and Implications*, *9*(46). https://doi.org/10.1186/s41235-024-00572-8 [n/a]

- 45. **Macnamara, B. N.**, Prather, R. W., & Burgoyne, A. P. (2023). Beliefs about success are prone to cognitive fallacies. *Nature Reviews Psychology*, *2*, 716–717. https://doi.org/10.1038/s44159-023-00255-z [n/a]
- 44. **Macnamara, B. N.**, & Burgoyne, A. P. (2023). A spotlight on bias in the growth mindset intervention literature: A reply to commentaries that contextualize the discussion (Oyserman, in press; Yan & Schuetze, in press) and illustrate the conclusion (Tipton et al., in press). *Psychological Bulletin*, 149(3–4), 242–258. https://doi.org/10.1037/bul0000394 [n/a]
- 43. **Macnamara, B. N.**, & Burgoyne, A. P. (2023). Do growth mindset interventions impact students' academic achievement? A systematic review and meta-analysis with recommendations for best practices. *Psychological Bulletin*, *149*(3–4), 133–173. https://doi.org/10.1037/bul0000352 [prereg; open]
- 42. ^gBarnett, M. K., & **Macnamara, B. N.** (2023). Individual responses versus aggregate group-level results: Examining the strength of evidence for growth mindset interventions on academic performance. *Journal of Intelligence*, 11(104). https://doi.org/10.3390/jintelligence11060104 [n/a]
- 41. Barth, M., Güllich, A., **Macnamara, B. N.**, & Hambrick, D. Z. (2023). Quantifying the extent to which junior performance predicts senior performance in Olympic sports: A systematic review and meta-analysis. *Sports Medicine*, *53*(6), 1201–1217. https://doi.org/10.1007/s40279-023-01906-0 [prereg; open]
- 40. Frank, D. J., King, M. J., g Dennard, C., & **Macnamara**, **B. N.** (2023). Discriminant function analysis reveals which combination of measures from the NFL Combine predict NFL performance. *Journal of Expertise*, 6(2), 130–163. https://www.journalofexpertise.org/articles/volume6_issue2/JoE_6_2_Frank_etal.html [open]
- 39. Güllich, A., Barth, M., **Macnamara, B. N.**, & Hambrick, D. Z. (2023). Participation patterns in talent development in youth sports. *Frontiers in Sports and Active Living*, 5(1175718). https://doi.org/10.3389/fspor.2023.1175718 [n/a]
- 38. Güllich, A., Barth, M., **Macnamara, B. N.**, & Hambrick, D. Z. (2023). Quantifying the extent to which successful juniors and successful seniors are two disparate populations: A systematic review and synthesis of findings. *Sports Medicine*, *53*(6), 1201–1217. https://doi.org/10.1007/s40279-023-01840-1 [prereg; open]
- 37. "Daniels, J. S., Moreau, D., & **Macnamara, B. N.** (2022). Learning and transfer in problem solving progressions. *Journal of Intelligence*, 10(4), 85, 1–13. https://doi.org/10.3390/jintelligence10040085 [prereg; open]
- 36. Barth, M., Güllich, A., **Macnamara, B. N.**, & Hambrick, D. Z. (2022). Predictors of junior versus senior elite performance are opposite: A systematic review and meta-analysis of

- participation patterns. *Sports Medicine*, *52*, 1399–1416. https://doi.org/10.1007/s40279-021-01625-4 [open]
- 35. Güllich, A., **Macnamara, B. N.**, Barth, M., & Hambrick, D. Z. (2021). Further muddying the waters? A comment on Bell et al.'s 2021 definition of "youth sport specialization." *Journal of Athletic Training*, 56(11), 1252–1254. https://doi.org/10.4085/1062-6050-1010-21 [n/a]
- 34. ^g Jiang, H., Yu, W., Lin, D., **Macnamara, B. N.** (2021). Resilience of adolescents, though weakened during pandemic-related lockdown, serves as a protection against depression and sleep problems. *Psychology, Health & Medicine, 27*, 1977–1988. https://doi.org/10.1080/13548506.2021.1990367 [prereg; open]
- 33. Burgoyne, A. P., & Macnamara, B. N. (2021). Reconsidering the use of the Mindset Assessment Profile in educational contexts. *Journal of Intelligence*, 9(3), 31, 1–11. https://doi.org/10.3390/jintelligence9030039 [prereg; open]
- 32. Güllich, A., **Macnamara, B. N.**, & Hambrick, D. Z. (2021). What makes a champion? Early multi-disciplinary practice, not early specialization, predicts world-class performance. *Perspectives on Psychological Science*, 17(1), 6–29. https://doi.org/10.1177/1745691620974772 [open]
- 31. gNavarro, E., **Macnamara, B. N.**, Glucksberg, S., & Conway, A. R. A. (2020). What influences successful communication? An examination of cognitive load and individual differences. *Discourse Processes*, *57*(10), 880–899. https://doi.org/10.1080/0163853X.2020.1829936 [prereg (Experiment 3); open]
- 30. Hambrick, D. Z., **Macnamara, B. N.**, & Oswald, F. L. (2020). Is the deliberate practice view defensible? A review of evidence and discussion of issues. *Frontiers in Psychology*, 11, 1134, 1–21. https://doi.org/10.3389/fpsyg.2020.01134 [n/a]
- 29. PFrank, D. J., & Macnamara, B. N. (2020). How do task characteristics affect learning and performance? The roles of simultaneous, interactive, and continuous tasks. *Psychological Research*, 85, 2364–2397. https://doi.org/10.1007/s00426-020-01394-1 [prereg; open]
- 28. gKing, M. J., & **Macnamara**, **B. N.** (2020). Three visual working memory representations simultaneously control attention. *Scientific Reports*, *10*, 10504, 1–9. https://doi.org/10.1038/s41598-020-67455-y [prereg]
- 27. PFrank, D. J., Demaree, H.A., & Macnamara, B. N. (2020). The role of individual differences in risk learning: Who learns to place optimal wagers? *Learning and Motivation*, 71, 101633, 1–10. https://doi.org/10.1016/j.lmot.2020.101633
- 26. **Macnamara, B. N.**, & Hambrick, D. Z. (2020). Toward a cumulative science of expertise: Commentary on Moxley, Ericsson, and Tuffiash (2017). *Psychological Research*, 85, 1108–1113. https://doi.org/10.1007/s00426-020-01307-2 [n/a]

- 25. ^gBurgoyne, A. P., Hambrick, D. Z., & **Macnamara, B. N.** (2020). How firm are the foundations of mindset theory? *Psychological Science*, *31*(3), 258–267. https://doi.org/10.1177/0956797619897588 [prereg; open]
- 24. **Macnamara, B. N.**, & Maitra, M. (2019). The role of deliberate practice in expert performance: Revisiting Ericsson, Krampe, & Tesch-Römer (1993). *Royal Society Open Science*, 6, 190327, 1–19. https://doi.org/10.1098/rsos.190327 [prereg; open]
- 23. McAbee, S. T. & **Macnamara**, **B. N.** (2019). Introduction to the special issue on open research practices and reproducibility in expertise research. *Journal of Expertise*, *2*(4), 197–198.

 https://www.journalofexpertise.org/articles/volume2_issue4/JoE_2_4_Intro.html [n/a]
- 22. Hambrick, D. Z. & **Macnamara, B. N.** (2019). More confusion about deliberate practice: Commentary on Miller et al. (2018). *High Ability Studies*, *30*(2), 291–294. https://doi.org/10.1080/13598139.2019.1607723 [n/a]
- 21. PFrank, D. J., & Macnamara, B. N. (2019). Retrieval shifts in spatial skill acquisition are collective rather than item-specific. *Memory & Cognition*, 47, 1344–1358. https://doi.org/10.3758/s13421-019-00937-1 [prereg; open]
- 20. ^gBurgoyne, A. P., Nye, C. D., **Macnamara, B. N.**, Charness, N., & Hambrick, D. Z. (2019). The impact of domain specific experience on chess skill: Re-analysis of a key study. *American Journal of Psychology, 132*(1), 27–38. https://www.jstor.org/stable/10.5406/amerjpsyc.132.1.0027 [n/a]
- 19. gKing, M. J., gKatz, D. P., Thompson, L. A., & **Macnamara, B. N.** (2019). Genetic and environmental influences on spatial reasoning: A meta-analysis of twin studies. *Intelligence*, 73, 65–77. https://doi.org/10.1016/j.intell.2019.01.001 [prereg; open]
- 18. Moreau, D., **Macnamara, B. N.**, & Hambrick, D. Z. (2019). Overstating the role of environmental factors in success: A cautionary note. *Current Directions in Psychological Science*, 28(1), 28–33. https://doi.org/10.1177/0963721418797300 [n/a]
- 17. **Macnamara, B. N.**, & PFrank, D. J. (2018). How do task characteristics affect learning and performance? The roles of variably mapped and dynamic tasks. *Journal of Experimental Psychology: Learning, Memory, and Cognition, 44*(5), 764–778. https://doi.org/10.1037/xlm0000487
- 16. "Sisk, V. F., gBurgoyne, A. P., "Sun, J., Butler, J. L., & **Macnamara, B. N.** (2018). To what extent and under which circumstances are growth mindsets important to academic achievement? Two meta-analyses. *Psychological Science*, 29(4), 549–571. https://doi.org/10.1177/0956797617739704 [open]
- 15. Hambrick, D. Z., ^gBurgoyne, A. P., **Macnamara, B. N.**, & Ullén, F. (2018). Toward a

- multifactorial model of expertise: Beyond born versus made. *Annals of the New York Academy of Sciences, 1423*(1), 284–295. https://doi.org/10.1111/nyas.13586 [n/a]
- 14. PFrank, D. J., & Macnamara, B. N. (2017). Does the acquisition of spatial skill involve a shift from algorithm to memory retrieval? *Journal of Experimental Psychology: Learning, Memory, and Cognition, 43*(12), 1845–1856. https://doi.org/10.1037/xlm0000429
- 13. **Macnamara, B. N.**, & "Rupani, N. S. (2017). The relationship between intelligence and mindset. *Intelligence*, 64, 52–59. https://doi.org/10.1016/j.intell.2017.07.003 [open]
- 12. ^gSala, G., ^gBurgoyne, A., Campitelli, G., **Macnamara, B. N.**, Hambrick, D. Z., & Gobet, F. (2017). Checking the "academic selection" argument. Chess players outperform nonchess players in cognitive skills related to intelligence: A meta-analysis. *Intelligence*, 60, 130–139. https://doi.org/10.1016/j.intell.2017.01.013 [open]
- 11. Gonthier, C., **Macnamara, B. N.**, ^gChow, M., Conway, A. R. A., & Braver, T. S. (2016). Inducing proactive control shifts in the AX-CPT. *Frontiers in Psychology*, 7, 1822, 1–14. https://doi.org/10.3389/fpsyg.2016.01822 [open]
- 10. gBurgoyne, A. P., gSala, G., Gobet, F., **Macnamara, B. N.**, Campitelli, G., & Hambrick, D. Z. (2016). The relationship between cognitive ability and chess skill: A comprehensive meta-analysis. *Intelligence*, 59, 72–83. https://doi.org/10.1016/j.intell.2016.08.002 [open]
- 9. **Macnamara, B. N.**, & Conway, A. R. A. (2016). Working memory capacity as a predictor of simultaneous language interpreting performance. *Journal of Applied Research in Memory and Cognition*, 5(4), 434–444. https://doi.org/10.1016/j.jarmac.2015.12.001
- 8. **Macnamara, B. N.**, Hambrick, D. Z., & Moreau, D. (2016). How important is deliberate practice? Reply to Ericsson (2016). *Perspectives on Psychological Science*, 11(3), 355–358. https://doi.org/10.1177/1745691616635614 [n/a]
- 7. **Macnamara, B. N.**, Moreau, D., Hambrick, D. Z. (2016). The relationship between deliberate practice and performance in sports: A meta-analysis. *Perspectives on Psychological Science*, 11(3), 333–350. https://doi.org/10.1177/1745691616635591 [open]
- 6. gChow, M. A., **Macnamara, B. N.**, & Conway, A. R. A. (2016). Phonological similarity in working memory span tasks. *Memory & Cognition, 44*, 937–949. https://doi.org/10.3758/s13421-016-0609-8 [open]
- 5. gMacnamara, B. N., Hambrick, D. Z., & Oswald, F. L. (2014). Deliberate practice and performance in music, games, sports, professions, and education: A meta-analysis. *Psychological Science*, 25(8), 1608–1618. https://doi.org/10.1177/0956797614535810 [open]

- 4. gMacnamara, B. N. & Conway, A. R. A. (2014). Novel evidence in support of the bilingual advantage: Influence of task demands and experience on cognitive control and working memory. *Psychonomic Bulletin & Review, 21*, 520–525. https://doi.org/10.3758/s13423-013-0524-y
- 3. gMacnamara, B. N., gMoore, A. B., & Conway, A. R. A. (2011). Phonological similarity effects in simple and complex span tasks. *Memory & Cognition*, *39*, 1174–1186. https://doi.org/10.3758/s13421-011-0100-5
- 2. gMacnamara, B. N., gMoore, A. B., Kegl, J. A., & Conway, A. R. A. (2011). Domain-general cognitive abilities and simultaneous interpreting skill. *Interpreting*, *13*, 121–142. https://doi.org/10.1075/intp.13.1.08mac
- 1. gMacnamara, B. N. (2009). Interpreter cognitive aptitudes. *Journal of Interpretation*, 2008-2009, 9-32. Reprint in *Journal of Interpretation* (2012), v. 19. http://digitalcommons.unf.edu/joi/vol19/iss1/1

Book Chapters

- 9. Güllich, A., Barth, M., **Macnamara, B. N.**, & Hambrick, D. Z. (2023). What makes champions? Childhood multi-sport practice facilitates long-term performance development. In R. Jeans & M. Toms (Eds.) *Routledge handbook of coaching children* (pp. 225–237). Routledge.
- 8. Hambrick, D. Z., & Macnamara, B. N. (2020). Toward a science of expertise: Obstacles, implications, and applications. In S. McCauley (Ed.), *Conceptual frameworks for giftedness and talent development* (pp. 55–92). Prufrock Press.
- 7. **Macnamara, B.N.**, Hambrick, D. Z., ^pFrank, D. J., ^gKing, M. J., ^gBurgoyne, A. P., & Meinz, E. J. (2017). The deliberate practice view: An evaluation of definitions, claims, and empirical evidence. In D. Z. Hambrick, G. Campitelli, & B. N. Macnamara (Eds.), *The science of expertise: Behavioral, neural, and genetic approaches to complex skill* (pp. 151–168). Routledge.
- 6. Hambrick, D. Z., Campitelli, G., & **Macnamara**, **B. N.** (2017). Introduction: A brief history on the science of expertise and overview of the book. In D. Z. Hambrick, G. Campitelli, & B. N. Macnamara (Eds.), *The science of expertise: Behavioral, neural, and genetic approaches to complex skill* (pp. 1–10). Routledge.
- 5. Hambrick, D. Z., ^gBurgoyne, A., Campitelli, G., & **Macnamara, B. N.** (2017). Working memory, thinking, and expertise. In L. J. Ball & V. A. Thompson (Eds.), *International handbook of thinking and reasoning* (pp. 268–288). Routledge.
- 4. Hambrick, D. Z., **Macnamara, B. N.**, Campitelli, G., Ullén, F., & Mosing, M. (2016). A new look at expertise: Beyond the experts are born vs. made debate. In B. Ross (Ed.), *Psychology of learning and motivation* (pp. 1–55). Elsevier.

- 3. Hambrick, D. Z. & Macnamara, B. N. (2016). Expertise. In S. K. Whitbourne (Ed.), *The encyclopedia of adulthood and aging* (pp. 1–6). John Wiley and Sons.
- 2. Conway, A. R. A., ^gMacnamara, B. N., & Engel de Abreu, P. M. J. (2013). Working memory and intelligence: An overview. In T. P. Alloway & R. G. Alloway (Eds.) *Working memory: The connected intelligence* (pp. 13–36). Psychology Press.
- 1. Conway, A. R. A., ^g Getz, S. J, ^gMacnamara, B. N., & Engel de Abreu, P. M. J. (2011). Working memory and intelligence. In R. J. Sternberg & S. B. Kaufman (Eds.), *The Cambridge handbook of intelligence* (pp. 394–418). Cambridge University Press.

Conference Proceeding

1. g Nelson, N., g Kas, I., g Sepuri, T., Smith, P., Wilson-Delfosse, A. L., Krupinski, E., **Macnamara, B. N.**, Ray, S., Çavuşoğlu, M. C. (2025). The effects of artificial intelligence assistants on the acquisition of laparoscopic surgical spatial navigation skills. *International Symposium on Medical Robotics (ISMR)* (pp. 136–142). https://doi.org/10.1109/ISMR67322.2025.11025979

INVITED SPOKEN PRESENTATIONS

- Macnamara, B. N. (2024, October). *Theories of achievement and cognitive fallacies*. [Invited presentation]. Psychology Department Colloquium, Youngstown State University, Youngstown, OH.
- Macnamara, B. N. (2024, September). *Factors associated with Olympic greatness*. [Invited presentation]. CSR 309 Leadership Strategies, Purdue University, West Lafayette, IN.
- Macnamara, B. N. (2024, September). *How sports champions develop may not be how you think*. [Invited presentation]. Department of Kinesiology, Purdue University, West Lafayette, IN.
- Macnamara, B. N. (2024, September). *Theories of achievement and cognitive fallaces*. [Invited presentation]. Attention and Perception Brown Bag, University of Illinois, Champaign—Urbana, IL.
- Macnamara, B. N. (2024, August). *Popular theories of achievement: The claims are stronger than the evidence*. [Invited presentation]. Clinical Psychology Area Colloquium, Purdue University, West Lafayette, IN.
- Macnamara, B. N. (2024, July). *Popular theories of skill acquisition, expertise, and achievement: Their empirical status.* [Welcoming lecture]. International Society of Intelligence Research Conference, Zurich, Switzerland.

- Macnamara, B. N. (2024, June). [Keynote address]. 28th International Symposium on Translation and Interpreting Teaching, Taipei City, Taiwan. *Note*. I needed to decline this invitation for logistical reasons.
- Macnamara, B. N. (2024, April). *How sports champions develop may not be how you think.* [Invited presentation]. German Research Centre of Elite Sport Congress. Cologne, Germany.
- Macnamara, B. N. (2024, February). *Theories and predictors of skill acquisition, expertise, and achievement*. [Invited presentation]. Department of Psychological Sciences, Purdue University, West Lafayette, IN.
- Macnamara, B. N. (2024, February). *Theories and predictors of skill acquisition, expertise, and achievement*. [Invited presentation]. Department of Psychology, University of Central Florida, Orlando, FL.
- Macnamara, B. N. (2023, December). *Growth mindset interventions: A meta-analysis and best practices recommendations.* [Invited presentation and meta-analysis workshop]. Advanced Analytical Methods for Generalizable Research course, School of Management, Case Western Reserve University, Cleveland, OH.
- Macnamara, B. N. (2023, November). *Theories and predictors of personal achievement*. [Invited presentation]. Department of Psychology, University of Waterloo, Waterloo, ON, Canada.
- Macnamara, B. N. (2023, July). *How sports champions develop may not be how you think*. [Invited presentation]. European College of Sports Science Congress, Paris, France.
- Macnamara, B. N. (2021, April). *Interpreting as complex human performance: The role of cognitive abilities, experience, and task demands.* [Keynote address]. 2nd International Conference on Interpreting, Hong Kong.
- Macnamara, B. N. (2020, December). *The '10,000-hour rule' and other misconceptions about the role practice plays in expertise*. [Invited presentation]. Southern Society for Philosophy and Psychology Annual Conference.
- Macnamara, B. N. (2019, October). *How well does deliberate practice explain performance variance?* [Invited presentation]. Psychology Department Colloquium, St. John's University, New York, NY.
- Macnamara, B. N. (2019, February). *Examining predictors and theories of skilled performance variance*. [Invited presentation]. Psychology Department Viking Series, Cleveland State University, Cleveland, OH.
- Macnamara, B. N. (2018, September). Examining popular theories for why some people are more successful than others: Similarities in trends from cognitive and social psychology.

- [Invited presentation]. Psychology Department Colloquium, Claremont Graduate University, Claremont, CA.
- Macnamara, B. N. (2018, September). *How important are growth mindsets to achievement?* [Invited presentation]. Psychology Department, University of British Columbia, Vancouver, BC, Canada.
- Macnamara, B. N. & Hambrick, D. Z. (2016, May). *Skill acquisition and expertise*. [Invited symposium]. Midwestern Psychological Association Annual Conference, Chicago, IL.
- Macnamara, B. N. (2014, October). *Predictors of performance across domains and within bilingualism*. [Invited presentation]. Psychology Department, University of Illinois-Chicago, Chicago, IL.
- gMacnamara, B. N. (2014, January). *Skill acquisition and expertise across domains and within bilingualism*. [Invited presentation]. Department of Psychological Sciences, Case Western Reserve University, Cleveland, OH.
- gMacnamara, B. N. (2013, October). *Skill acquisition and expertise across domains and within bilingualism*. [Invited presentation]. Psychology Department, University of Chicago, Chicago, IL.

HONORS, AWARDS, AND NOMINATIONS

Association for Psychological Science Fellow	2025
Psychonomic Society Early Career Award Recipient	2024
Case Western Reserve University John S. Diekhoff Award for Distinguished Graduate Student Mentoring Nominee	2022
Case Western Reserve University J. Bruce Jackson, M.D., Award for Excellence in Undergraduate Mentoring Recipient	2019
Case Western Reserve University John S. Diekhoff Award for Distinguished Graduate Student Teaching Recipient	2018
Psychonomic Society Fellow	2017
Association for Psychological Science Rising Star	2017

Women in Cognitive Science

Travel and Networking Award Runner-up

2016

Carnegie Mellon University

Travel Fellowship to the 36th Carnegie Symposium on Cognition Recipient

2009

MEMBERSHIPS

SPARK Society	since 2020
Association for Psychological Science	since 2014
Women in Cognitive Science	since 2008
Psychonomic Society	since 2008
Society for Personality and Social Psychology	2016 - 2018, 2023 - 2024
Society for the Improvement of Psychological Science	2018 - 2022
Midwestern Psychological Association	2014 - 2019

EDITORIAL AND REVIEWER POSITIONS

Journal Editorial Positions

Consulting Editor, Journal of Expertise	2022 – present
Consulting Editor, Interpreting	2020 – present
Consulting Editor, Journal of Experimental Psychology: General	2016 - 2018, 2019 - 2024
Consulting Editor, Journal of Intelligence	2022 - 2024
Consulting Editor, Psychonomic Bulletin & Review	2020 - 2022
Associate Editor, Journal of Expertise	2018 - 2022
Consulting Editor, Journal of Experimental Psychology: LMC	2016 - 2022
Special Issue Co-Editor, <i>Journal of Expertise</i> (special issue on open science and reproducibility)	2019
Guest Academic Editor. PLOS One	2018

Journal Ad Hoc Reviewer (selective list)

Nature Nature Reviews Psychology

Sports Medicine Behavior Research Methods

Psychological Science Psychonomic Bulletin & Review

Psychological Bulletin Perspectives on Psychological Science

Psychological Inquiry Cognitive Research: Principles & Implications

Nature Human Behavior Proceedings of the National Academy of

Sciences

Book Editorial Position

Book Co-Editor*, *The science of expertise: Behavioral, neural, and genetic* 2016 – 2018 *approaches to complex skill.* Routledge.

Funding Reviewer

National Science Foundation

Panelist (\times 3) 2019 – 2020

Narodowe Centrum Nauki (National Science Centre [Poland])

Ad Hoc Funding Reviewer 2017

National Science Foundation

Ad Hoc Funding Reviewer (×2) 2015

Université de Toulouse: Initiative d'Excellence (Toulouse University: Excellence Initiative)

Ad Hoc Funding Reviewer 2015

National Center of Science and Technology Evaluation (Kazakhstan)

Ad Hoc Funding Reviewer 2014

TEACHING EXPERIENCE

g = graduate course, u = undergraduate course

Purdue University

CourseTerms Taughtg Meta-analysisFall 2025g Skill Acquisition, Expertise, and AchievementSpring 2025

^{*}Royalties refused/directly donated to Berkeley Initiative for Transparency in the Social Sciences

Case Western Reserve University

g Science Writing	Spring 2021, Fall 2023
g Statistics and Research Design	Springs 2015 – 2024
g Everything You Need to Know But Are Never T	Falls 2019, 2022
^u Senior Capstone Course (Current Problems)	Spring 2022
g Idea Generation & Post-PhD Career Options	Fall 2021
g Learning Theory	Springs 2016, 2020
^u Research Methods	Falls 2014 – 2018, Springs 2015, 2017 – 2019

Princeton University

* = preceptor, i = lab instructor)

ⁱ Statistics	Fall 2012, Spring 2013
* Health Psychology	Spring 2012
ⁱ Introduction to Psychology	Fall 2010
* Memory and Cognition	Spring 2010
* Abnormal Psychology	Fall 2009

ADVISING AND SUPERVISING

Postdoctoral Scholar Advisees

Ashley L. Miller, PhD

<u>Current position:</u> Postdoctoral Scholar, Purdue University

2025 – present

David J. Frank, PhD 2015 – 2017

Current position: Assistant Professor, Youngstown State University

Primary PhD Advisee: Purdue University

Mariel Barnett 2024 – present

Current position: 3rd-year PhD student, Purdue University

Primary PhD Advisees: Case Western Reserve University

Mariel Barnett 2022 – 2024

Current position: 3rd-year PhD student, Purdue University	
Huangqi Jiang, PhD <u>Current position:</u> Data Engineer, Bloomberg	2017 – 2022
Michael J. King, PhD <u>Current position:</u> Human Factors Engineer, Quantum Improvement	2015 – 2020 nts Consulting
Secondary Graduate Advisees: Case Western Reserve I	<u>University</u>
Kyle LaFollette <u>Current position:</u> Principal Researcher, The University of Chicago	2020 – 2025
Doroteja Rubez <u>Current position:</u> 5 th -year PhD student, Case Western Reserve Un	2020 – 2025 iversity
Charlotte Lubowe <u>Current position:</u> 3 rd -year PhD student, Case Western Reserve Un	2023 – 2025 niversity
Amanda Merner, PhD <u>Current position:</u> Instructor, Harvard Medical School	2017 – 2022
Anne Kotynski-Gooding, PhD <u>Recent position:</u> Chief of Workforce Planning and Analytics, NIF	2015 – 2020 H
Master's Thesis Committee: Purdue University	<u>v</u>
Psychology: 1 student	2024
Master's Thesis Committees: Case Western Reserve U	<u>niversity</u>
Psychology: 15 students	2014 – present
Electrical Engineering: 1 student	2022 - 2023
Computer Science: 2 students 20	015 - 2016, 2022 - 2023
Biomedical Engineering: 3 students	2018 – 2023
Dissertation Committees: Case Western Reserve Uni	<u>iversity</u>
Psychology: 12 students	2014 – present
Biomedical Engineering: 2 students	2022 - 2025
Accounting: 1 student	2022 - 2024
Nursing: 1 student	2015 – 2016

Dissertation Committees: Purdue University

Psychology: 1 student 2024 – present **Graduate Independent Study Advisees: Case Western Reserve University** Psychology: 4 students 2015 - 2024Post-bac Research Assistants/Lab Managers Full-time: 2 lab managers (non-overlapping) 2022 - presentPart-time: 4 post-bac research assistants (non-overlapping) 2014 - 2024**Undergraduate Research Assistants: Purdue University** 4 students 2024 - present**Undergraduate Research Assistants: Case Western Reserve University** 63 students (2–9 students per semester) 2015 - 2025**Notable Undergraduate Research Advisees:** Essence Leslie 2019 - 2022Recent position: Post-bac Research Assistant, Vanderbilt University Bao Ho 2019 - 2021<u>Current position:</u> PhD Student, I-O Psychology, Bowling Green State University Jonathan S. Daniels 2017 - 2019Current position: PhD Student, Cognitive Psychology, Princeton University Victoria F. Sisk 2015 - 2017Recent position: PhD Student, Sociology, University of Arizona **Honors Capstone Advisees: Case Western Reserve University** Psychology: 12 students 2015 - 2024**Independent Study Advisees: Case Western Reserve University** Psychology: 17 students 2015 - 2024**Psychology Major Academic Advisees**

131 total major advisees (~30 students per semester)

2014 - 2024

SERVICE

Professional

Psychonomic Society Communications Committee Member	2024 – present
Psychonomic Society Cognitive Research: Principles & Implications Editorial Search Committee Members	ber 2025
Women in Cognitive Science Speed Mentoring Session Mentor	2024
Institutional: Case Western Reserve University	
Office of Research Institutional Review Board Member	2022 – 2024
Office of Faculty Development Faculty Development Council Member	2022 – 2023
Undergraduate Admission Psychology Club Faculty Advisor	2019 – 2022
Office of the Provost Think Big Initiative Funding Reviewer	2020
Office of the Provost Think Big Initiative for Equity and Safety Faculty Advisor	2020
College of Arts & Sciences W.P. Jones Junior Faculty Fellowship Selection Committee Member	2019 – 2020
Departmental: Case Western Reserve University	
Department of Psychological Sciences Developmental, Cognitive, and Affective Sciences PhD Program Director	2019 – 2024
Department of Psychological Sciences Student Awards Committee Member	2017 – 2024
Department of Psychological Sciences Faculty Search Committee Chair	2023
Department of Psychological Sciences	

PUBLIC ENGAGEMENT

Press Releases

Association for Psychological Science Royal Society

Princeton University Case Western Reserve University

Select On-Air Interviews

National Public Radio (NPR) British Broadcasting Corporation (BBC) × 4

Select Media Outlets

(where research was reported, discussed, or featured)

The New York Times The Washington Post The Boston Globe
Huffington Post ESPN Psychology Today
Houston Chronicle San Francisco Chronicle New York Magazine

Business Insider Sydney Morning Herald Bloomberg Business Week

Parsing Science Scientific American Smithsonian Magazine

The Conversation The Wall Street Journal The Range Report/Range Widely