ALEXANDER P. BURGOYNE, Ph.D.

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EMPLOYMENT

2021 – Present	Research Scientist II Attention & Working Memory Lab Georgia Institute of Technology, School of Psychology Principal Investigator: Randy Engle, Ph.D.
2020 – 2021	Post-Doctoral Research Fellow Attention & Working Memory Lab Georgia Institute of Technology, School of Psychology Principal Investigator: Randy Engle, Ph.D.

EDUCATION

2019	Doctor of Philosophy Cognition and Cognitive Neuroscience Michigan State University, Department of Psychology Advisor: D. Zach Hambrick, Ph.D.
2018	Master's Degree Cognition and Cognitive Neuroscience Michigan State University, Department of Psychology Advisor: D. Zach Hambrick, Ph.D.
2014	Bachelor of Arts in Psychology, graduated with honor Michigan State University, College of Social Science

SUBMITTED ARTICLES

Burgoyne, A. P., Krieger, F., Greiff, S., & Engle, R. W. (under review). Individual differences in complex problem solving and intelligence: factor structure, nomological network, and the role of strategy use. *Journal of Experimental Psychology: General.*

Leung, F. Y. N., Hargitai, L. D., **Burgoyne, A. P.,** Liceralde, V. R. T., Livinston, L. A., & Shah, P. (under review). Unpacking the overlap between autism and ADHD in adults: A multi-method approach. *Cortex.*

Mashburn, C. A., **Burgoyne, A. P.,** Tsukahara, J. S., Pak, R., Coyne, J. T., Sibley, C., & Engle, R. W. (under review). Knowledge, attention, and psychomotor skill: an experimental approach to understanding individual differences in simulated work performance. *Acta Psychologica.*

Burgoyne, A. P., Mashburn, C. A., Tsukahara, J. S., Pak, R., Coyne, J. T., Foroughi, C., Sibley, C., Drollinger, S. M., & Engle, R. W (under review). Attention control measures improve the prediction of performance in Navy trainees. *Journal of Experimental Psychology: Applied.*

Macnamara, B. N. & **Burgoyne, A. P.** (under review). 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.*

Hambrick, D.Z., Altmann, E. M., & **Burgoyne, A. P.** (in preparation). Placekeeping ability, attention control, and simulated work performance. *Journal of Intelligence.*

Hambrick, D. Z., Katsumata, D. S., & **Burgoyne, A. P.** (under review). Accelerating the acquisition of expertise. *Journal of Expertise.*

MANUSCRIPTS IN PREPARATION

Reynolds, R., **Burgoyne, A. P.,** & Totzkay, D. (in preparation). Moderators of the exemplification effect in communication research: Inferential reasoning ability and attention control.

Macnamara, B. N. & **Burgoyne, A. P**. (in preparation). The dark side of grit: Perseverance versus perseveration.

JOURNAL ARTICLES

Burgoyne, A. P., Mashburn, C. A., Tsukahara, J. S., Pak, R., & Engle, R. W. (2023). Nature and measurement of attention control. *Journal of Experimental Psychology: General.*

Hambrick, D. Z., **Burgoyne, A. P.,** & Oswald, F. L. (in press). Does the validity of *g* as a predictor of job-specific performance vary with job experience? A test in 31 military occupations. *Journal of Applied Psychology.*

Campitelli, G., **Burgoyne, A. P**., & Gobet, F. (2023). New developments in chess expertise research: An introduction to the special issue of the *Journal of Expertise*. *Journal of Expertise, March, 2023.*

Burgoyne, A. P., Hambrick, D. Z., Stec, K., & Fenn, K. M. (2023). The ACT predicts academic performance, but why? *Journal of Intelligence, 11,* 9. https://doi.org/10.3390/jintelligence11010009

Macnamara, B. N. & **Burgoyne, A. P.** (2022). Do Growth Mindset Interventions Impact Students' Academic Achievement? A Systematic Review and Meta-Analysis With Recommendations for Best Practices. *Psychological Bulletin.* https://doi.org/10.1037/bul0000352

Burgoyne, A. P., Mashburn, C. A., Tsukahara, J. S., & Engle, R. W. (2022). Attention control and process overlap theory: Searching for cognitive processes underpinning the positive manifold. *Intelligence*, *9,* 101629. DOI: 10.1016/j.intell.2022.101629

Burgoyne, A. P., Sadiya, S., Harris, L. J., Becker, M. W., Brascamp, J. W., & Hambrick, D. Z. (2022). Revisiting the self-generation effect in proofreading. *Psychological Research.* https://doi.org/10.1007/s00426-022-01699-3

Burgoyne, A. P., Mashburn, C. A., Tsukahara, J. S., Hambrick, D. Z., & Engle, R. W. (2021). Understanding the relationship between rationality and intelligence: A latent-variable approach. *Thinking and Reasoning*. DOI: 10.1080/13546783.2021.2008003

Johnson, T. L., **Burgoyne, A. P.,** Mix, K. S., Young, C. J., & Levine, S. C. (2021). Spatial and mathematics skills: Similarities and differences related to age, SES, and gender. *Cognition, 218.* DOI: 10.1016/j.cognition.2021.104918

Burgoyne, A. P., Mashburn, C. A., & Engle, R. W. (2021). Reducing adverse impact in high-stakes testing. *Intelligence, 87,* 101561. DOI: 10.1016/j.intell.2021.101561

Burgoyne, A. P. & Macnamara, B. N. (2021). Reconsidering the use of the mindset assessment profile in educational contexts. *Journal of Intelligence, 9,* 39. DOI: 10.3390/jintelligence9030039

Burgoyne, A. P. & Engle, R. W. (2020). Attention control: A cornerstone of higher-order cognition. *Current Directions in Psychological Science, 29,* 624-630. DOI: 10.1177/0963721420969371

Burgoyne, A. P., Carroll, S., Clark, D. A., Hambrick, D. Z., Plaisance K. S., Klump, K. L., & Burt, S. A. (2020). Can a brief intervention alter genetic and environmental influences on psychological traits? An experimental behavioral genetics approach. *Learning & Motivation,* 72. DOI: 10.1016/j.lmot.2020.101683

Burgoyne, A. P., Tsukahara, J. S., Draheim, C., & Engle, R. W. (2020). Differential and experimental approaches to studying intelligence in humans and non-human animals. *Learning & Motivation, 72*. DOI: 10.1016/j.lmot.2020.101689

Burgoyne, A. P., Hambrick, D. Z., & Altmann, E. M. (2020). Incremental validity of placekeeping as a predictor of multitasking. *Psychological Research.* DOI: 10.1007/s00426-020-01348-7

Burgoyne, A. P., Hambrick, D. Z., & Macnamara, B. N. (2020). How firm are the foundations of mindset theory? The claims appear stronger than the evidence. *Psychological Science, 31,* 258-267. DOI: 10.1177/0956797619897588

Burgoyne, A. P., Hambrick, D. Z., & Altmann, E. M. (2019). Placekeeping ability as a component of fluid intelligence: Not just working memory capacity. *American Journal of Psychology, 132,* 439-449. DOI: 10.5406/amerjpsyc.132.4.0439

Burgoyne, A. P., Harris, L. J., & Hambrick, D. Z. (2019). Predicting skill acquisition in music: The role of general intelligence, music aptitude, and mindset. *Intelligence, 76.* DOI: 10.1016/j.intell.2019.101383

Burgoyne, A. P., Hambrick, D. Z., & Altmann, E. M. (2019). Is working memory a causal factor in fluid intelligence? *Psychonomic Bulletin & Review, 26,* 1333-1339*.* DOI: 10.3758/s13423-019-01606-9

Burgoyne, 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*, 27-38. DOI: 10.5406/amerjpsyc.132.1.0027

Burgoyne, A. P., Hambrick, D. Z., Moser, J. S., & Burt, S. A. (2018). Analysis of a mindset intervention. *Journal of Research in Personality*, *77*, 21-30. DOI: 10.1016/j.jrp.2018.09.004

Mix, K., Hambrick, D. Z., Satyam, V. R., **Burgoyne, A. P.**, & Levine, S. C. (2018). The latent structure of spatial skill: A test of the 2 x 2 typology. *Cognition, 180,* 268-278. DOI: 10.1016/j.cognition.2018.07.012

Hambrick, D. Z., Altmann, E., & **Burgoyne, A. P.** (2018). A knowledge-activation approach to testing the circumvention-of-limits hypothesis. *American Journal of Psychology, 131,* 307-321. DOI: 10.5406/amerjpsyc.132.4.0439

Sisk, V., **Burgoyne, 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,* 549-571. DOI: 10.1177/0956797617739704

Hambrick, D. Z., **Burgoyne, A. P.**, Macnamara, B. N., & Ullén, F. (2018). Toward a multifactorial model of expertise: Beyond born versus made. *The New York Academy of Sciences, 1423,* 284-295. DOI: 10.1111/nyas.13586

Sala, G., **Burgoyne, A. P.**, Macnamara, B. N., Hambrick, D. Z., Campitelli, G., & Gobet, F. (2017). Checking the "academic selection" argument. Chess players outperform non-chess players in cognitive skills related to intelligence: A meta-analysis. *Intelligence, 61,* 130-139. DOI: 10.1016/j.intell.2017.01.013

Burgoyne, A. P., Sala, 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. DOI: 10.1016/j.intell.2016.08.002

REVIEWS AND COMMENTARIES

Burgoyne, A. P., Johnson, T. L., Mix, K. S., Young, C. J., & Levine, S. C. (2021). Individual differences in spatial and mathematics skills: Implications for educational and clinical psychology. *Clinical Psychiatry*, *7*, 110.

Burgoyne, A. P., & Engle, R. W. (2020). Mitochondrial functioning and its relation to higher-order cognitive processes: Commentary on Geary (2018). *Journal of Intelligence, 8,* 14. DOI: 10.3390/jintelligence8020014

Hambrick, D. Z., & **Burgoyne, A. P.** (2019). Beyond nature vs. nurture in expertise research – comment on J. Baker and N. Wattie. *Current Issues in Sport Science, 4,* 104. DOI: 10.15203/CISS_2019.104

CHAPTERS

Burgoyne, A. P., Martin, J. D., Mashburn, C. A., Tsukahara, J. S., Draheim, C., & Engle, R. W. (in press). "Measuring individual differences in working memory capacity and attention control and their contribution to language comprehension." In J. W. Schwieter & W. Zhisheng (Eds.), *The Cambridge Handbook of Working Memory & Language.* Cambridge, UK: Cambridge University Press.

Mashburn, C. A., **Burgoyne, A. P.,** & Engle, R. W. (in press). "Working Memory, Intelligence, and Life Success: Examining Relations to Academic Achievement, Job Performance, Physical Health, Mortality, and Psychological Well-Being". In R. H. Logie (Ed.), *Memory in Science for Society.*

Burgoyne, A. P., Harris, L. J., & Hambrick, D. Z. (2022). "The origins of musical expertise." In G. McPherson (Ed.), *The Oxford Handbook of Music Performance.* Oxford, UK: Oxford University Press.

Hambrick, D. Z., **Burgoyne, A. P.,** & Araujo, D. (2020). "Working memory and expertise: An ecological perspective." In R. Logie, V. Camos, & N. Cowan (Eds.), *Working Memory: State of the Science (The Oxford Handbook of Working Memory).* Oxford, UK: Oxford University Press.

Hambrick, D. Z., **Burgoyne, A. P.**, & Altmann, E. M. (2020) "Problem solving and intelligence." In R. J. Sternberg (Ed.), *Thinking and Problem Solving (Handbook of Perception and Cognition), Volume 3.* Academic Press.

Hambrick, D. Z., **Burgoyne, A. P.**, & Oswald, F. L. (2019) "The role of interests in the development of expertise: A multifactorial perspective." In C. D. Nye & J. Rounds (Eds.), *Vocational Interests in the Workplace: Rethinking Behavior at Work.* Routledge.

Hambrick, D. Z., **Burgoyne, A. P.**, & Oswald, F. L. (2019). "Domain-general models of expertise: The role of cognitive ability." In P. Ward, J. M. Schraagen, J. Gore, & E. Roth (Eds.), *The Oxford Handbook of Expertise.* Oxford, UK: Oxford University Press.

Hambrick, D. Z., **Burgoyne, A. P.**, Campitelli, G., & Macnamara, B. N. (2018). "Working memory, thinking, and expertise." In L. J. Ball & V. A. Thompson (Eds.), *International Handbook of Thinking and Reasoning*. Psychology Press.

Macnamara, B. N., Hambrick, D. Z., Frank, D. J., King, M. J., **Burgoyne, A. P.**, & Meinz, E. J. (2018). "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.* Psychology Press.

POPULAR WRITING

Burgoyne, A. P., & Hambrick, D. Z. (2021, August 31). Sometimes Mindlessness Is Better Than Mindfulness, *Scientific American*. Retrieved from https://www.scientificamerican.com/article/pupil-size-is-a-marker-of-intelligence/

Tsukahara, J. T., **Burgoyne, A. P.,** & Engle, R. W. (2021, June 2). Pupil Size Is a Marker of Intelligence, *Scientific American*. Retrieved from https://www.scientificamerican.com/article/sometimes-mindlessness-is-better-than-mindfulness/

Hambrick, D. Z. & **Burgoyne, A. P.** (2019, May 29). Looks Matter, but So Do Smarts, *Scientific American*. Retrieved from https://www.scientificamerican.com/article/looks-matters-but-so-does-smarts/

Burgoyne, A. P. & Hambrick, D. Z. (2017, January 12). Intelligence and the DNA Revolution, *Scientific American*. Retrieved from https://www.scientificamerican.com/article/intelligence-and-the-dna-revolution/

Burgoyne, A. P. & Hambrick, D. Z. (2017, August 22). Flagging Fake News or Bad Sources Won't Work, *Slate*. Retrieved from

http://www.slate.com/articles/health_and_science/science/2017/01/educating_people_about_sources_won_t_stop_fake_news.html

Hambrick, D. Z. & **Burgoyne, A. P.** (2016, September 18). The Difference Between Rationality and Intelligence, *New York Times*, p. SR12.

PRESENTATIONS AND SYMPOSIA

Burgoyne, A. P. (2023, August). *Measurement invariance structural equation modeling workshop.* Workshop given to the Department of Psychological Sciences at Case Western Reserve University in Cleveland, OH.

Burgoyne, A. P., Tsukhara, J. S., Mashburn, C.A., & Engle, R. W. (2022, November). *Three-Minute Tests of Attention Control: Reliable and Valid Predictors of Complex Task Performance.* Presentation at the annual conference of the Psychonomic Society, Boston, MA.

Burgoyne, A. P. & Engle, R. W. (2022, June). *Attention control measures can improve personnel selection for the U.S. Navy.* Presentation at the Naval Aerospace Medical Institute, Pensacola, FL.

Burgoyne, A. P. & Engle, R. W. (2021, June). *Cognitive Underpinnings of Individual Differences in Complex Problem Solving.* Presentation at the annual conference of the Psychonomic Society, New Orleans, LA.

Burgoyne, A. P., Hambrick, D. Z., & Macnamara, B. N. (2019, April). *How Firm Are the Foundations of Mindset Theory?* Presentation at the annual conference of the Midwestern Psychological Association, Chicago, IL.

Burgoyne, A. P., & Hambrick, D. Z. (2018, November). *Placekeeping Ability, Working Memory, and Fluid Intelligence.* Presentation at Rice University's Industrial/Organizational Psychology Department's Brown Bag Series. Houston, TX.

Burgoyne, A. P., Altmann, E. M., & Hambrick, D. Z. (2018, November). *Placekeeping Ability as a Component of Fluid Intelligence.* Poster presented at the annual Psychonomics convention, New Orleans, LA.

Macnamara, B. N. & **Burgoyne, A. P.** (2018, May). *How Important Are Growth Mindsets for Learning and Achievement?* Symposium at the annual convention of the Association for Psychological Science, San Francisco, CA.

Burgoyne, A. P., Hambrick, D. Z., & Harris, L. J. (2018, May). *The Role of Cognitive Ability, Music Aptitude, and Mindset in Acquiring Musical Skill.* Presentation at the annual convention of the Association for Psychological Science, San Francisco, CA.

Burgoyne, A. P., Burt, S. A., Moser, J., Yeager, D., Plaisance, K., & Hambrick, D. Z. (2018, April). *Altering Mindsets with a Brief Online Intervention.* Presentation at the annual conference of the Midwestern Psychological Association, Chicago, IL.

Burgoyne, A. P., Altmann, E. M., & Hambrick, D. Z. (2017, May). *Cognitive Determinants of Multitasking Ability.* Poster presented at the annual convention of the Association for Psychological Science, Boston, MA.

Burgoyne, A. P., Nye, C. D., Macnamara, B. N., Charness, N., Hambrick, D. Z. (2017, April). *The Impact of Domain-Specific Experience on Chess Skill: Re-Analysis of a Key Study.* Presentation at the annual conference of the Midwestern Psychological Association, Chicago, IL.

Burgoyne, A. P., Harris, L. J., & Hambrick, D. Z. (2016, May). *Acquiring Skill in Music.* Poster presented at the annual conference of the Midwestern Psychological Association, Chicago, IL.

Burgoyne, A. P., Sala, G., Gobet, F., Macnamara, B. N., Campitelli, G., Hambrick, D. Z. (2016, May). *The Relationship Between Intelligence and Expertise in Chess: A Meta-Analysis.* Presentation at the annual conference of the Midwestern Psychological Association, Chicago, IL.

GRANTS, HONORS, AND AWARDS

2023 **Office of Naval Research Broad Agency Announcement**
$1,340,000
(under review, invited by program officer Jacob Norris, CDR)
Attention control measures can enhance the prediction of Naval warfighter performance.
Grant application written by Alexander P. Burgoyne and Randall W.

Engle.
Co-PI: Alexander P. Burgoyne

2023 **National Science Foundation, Perception, Action, and Cognition**
$599,138
(under review)
Predicting multitasking across sedentary and physically dynamic conditions: Is multitasking a general construct?
Grant application written by Scott Monfort, Keith Hutchison, Alexander P. Burgoyne, and Randall W. Engle
Co-PI: Alexander P. Burgoyne

2023 **Department of Defense/Office of Naval Research**
Multidisciplinary University Research Initiative
$7,499,317
Understanding and Building Overall Cognitive Capability through Attention Control.
Grant application written by Alexander P. Burgoyne, Randall W. Engle, Earl Miller, Ed Vogel, Monica Rosenberg, Tom Reddick, & Kim Fenn.
Co-PI: Alexander P. Burgoyne

2022 **Defense University Research Instrumentation Program Grant**
$117,193
Investigating the Physiological Underpinnings of Attention Control.
Grant application written by Alexander P. Burgoyne and Randall W. Engle.

2022 **U.S. Army Research Institute Broad Agency Announcement**
$1,034,940
Understanding Change in Performance: The Roles of Cognitive Abilities, "Hot Cognition", and Context
Grant application written by Brooke N. Macnamara, David Frank, and Alexander P. Burgoyne.
Co-PI: Alexander P. Burgoyne

2021 **American Psychological Foundation Visionary Grant**
$18,569
Reducing Adverse Impact and Improving Personnel Selection Using Tests of Attention Control.
PI: Alexander P. Burgoyne

2020 **Defense University Research Instrumentation Program Grant $146,400**
Physiological Underpinnings of Attention Control, Working Memory Capacity, and Fluid Intelligence: The Role of the Locus Coeruleus.
Grant application written by Alexander P. Burgoyne and Randall W. Engle.

2018 **Research Scholars Award: $3,500**
The Nature and Nurture of Skilled Performance: Understanding the Role of Basic Abilities and Training on Complex Task Performance.
PI: Alexander P. Burgoyne

2018 **Thompson Endowment Fellowship: $1,000**
The Nature and Nurture of Skilled Performance: Understanding the Role of Basic Abilities and Training on Complex Task Performance.
PI: Alexander P. Burgoyne

2018 **Future Academic Scholars in Teaching Fellowship: $2,000**
Cognitive Processes Underlying Undergraduate Writing and Proofreading.
PI: Alexander P. Burgoyne

2018 **Research Enhancement Award: $1,000**
Circumvention of Limits in Chess.
PI: Alexander P. Burgoyne

2018 **Travel Award: $1,100**

2017 **Summer Fellowship Award: $600**

2015 **Rasmussen Fellowship Award: $5,000**

MEDIA APPEARANCES

2022 "How should we measure cleverness?"
BBC World News *CrowdScience* radio broadcast
https://www.bbc.co.uk/programmes/w3ct3j6p

2021 "Talent or Training"
German television network 3sat/ZDF documentary

https://www.zdf.de/dokumentation/3sat-wissenschaftdoku/210812-sendung-wido-102.html

COGNITIVE ABILITY TESTING SOFTWARE

2022	Stroop Squared (E-Prime, E-Prime Go)
2022	Simon Squared (E-Prime, E-Prime Go)
2022	Flanker Squared (E-Prime, E-Prime Go)
2020	Auditory Flanker – Adaptive Difficulty (E-Prime, E-Prime Go)
2020	Auditory Stroop – Adaptive Difficulty (E-Prime, E-Prime Go)
2020	Auditory Simon – Adaptive Difficulty (E-Prime, E-Prime Go)
2020	Melody Memory (E-Prime, E-Prime Go)
2020	Attending to Speech in Noise (E-Prime, E-Prime Go)
2020	Multiple Object Tracking (Open Sesame)
2017	Visual Arrays Task (E-Prime)
2017	Choose-A-Move Chess Test (E-Prime)
2017	Chess Knowledge Test (E-Prime)
2017	Typing Speed Test (E-Prime)
2016	Reading Comprehension Test (E-Prime)
2016	Pattern Comparison Test (E-Prime)

All programs are free to download at www.scienceofexpertise.com/alex or by contacting burgoyn4@gmail.com

WEB DESIGN AND MANAGEMENT

www.scienceofexpertise.com – Website for the Expertise Laboratory
www.journalofexpertise.org – Official website for the Journal of Expertise

ACADEMIC POSITIONS

2021 – Present	Research Scientist II Attention & Working Memory Lab Georgia Institute of Technology, School of Psychology Principal Investigator: Randy Engle, Ph.D.

Fall 2022	Lecturer/Instructor of Record Psychology 6011 (A): Graduate-level Cognitive Psychology Georgia Institute of Technology
Summer 2022	Lecturer/Instructor of Record Psychology 1101 (SF): General Psychology Georgia Institute of Technology *Student evaluations* *Overall instructor effectiveness: 5/5, 100th percentile at GT* *Inclusivity: 5/5, 100th percentile at GT* *Enthusiasm: 5/5, 100th percentile at GT*
Spring 2022	Lecturer/Instructor of Record Psychology 1101 (G): General Psychology Georgia Institute of Technology *Student evaluations* *Overall instructor effectiveness: 4.9/5, 99th percentile at GT* *Inclusivity: 4.9/5, 99th percentile at GT* *Enthusiasm: 4.9/5, 99th percentile at GT*
2020 – 2021	Post-Doctoral Research Fellow Attention & Working Memory Lab Georgia Institute of Technology, School of Psychology Principal Investigator: Randy Engle, Ph.D.
2015 – 2019	Graduate Research Assistant/Laboratory Manager Expertise Laboratory Michigan State University, Department of Psychology Supervisor: D. Zach Hambrick, Ph.D.
2016	Teaching Assistant Psychology 402(W): Sensation and Perception Michigan State University, Department of Psychology Professor: Mark Becker, Ph.D.
2015	Teaching Assistant Psychology 244: Developmental Psychology: Infancy through Childhood Michigan State University, Department of Psychology Professor: Lauren J. Harris, Ph.D.

2014 – 2015	Professional Aide Michigan Twins Project, Michigan State University Principal Investigators: Kelly Klump, Ph.D., Alex Burt, Ph.D.
2013	Teaching Assistant Psychology 200: Introduction to Cognitive Psychology Michigan State University, Department of Psychology Professor: Mark Becker, Ph.D.
2012 – 2013	Research Assistant Michigan Twins Project, Michigan State University Principal Investigators: Kelly Klump, Ph.D., Alex Burt, Ph.D.

PROFESSIONAL SERVICE

2023	Led the College of Sciences Research Faculty Awards Committee for FY23 at Georgia Tech
2023 – Present	Selected as the Research Faculty Liaison for the School of Psychology
2022 – Present	School of Psychology representative for the Research Faculty Advisory Council at Georgia Tech.
2022 – Present	Associate Editor for the *Journal of Expertise*
2022 – Present	Guest Editor for the *Journal of Expertise* special issue: The Science of Chess Expertise.
2022	Guest Editor for the *Journal of Intelligence* special issue: Skill Acquisition, Expertise, and Achievement
2017 – Present	Reviewer for the following journals: *Journal of Experimental Psychology: General, Journal of Experimental Psychology: Learning, Memory, and Cognition, Journal of Behavioral Decision Making, Clinical Psychological Science, Intelligence, Military Psychology, Music Perception, Journal of Expertise, Advances in Cognitive Psychology,*

Organizational Behavior and Human Decision Processes, Learning and Individual Differences, Frontiers in Psychology.

2016 Reviewer for the Association for Psychological Science Student Grant Competition

2016 Student Representative, *Quantitative Genetics Faculty Search Committee,* Psychology Department, Michigan State University East Lansing, MI

TECHNICAL SKILLS

Structural equation modeling (*R, Amos, MPlus, JASP)*
Meta-analysis (*R, Comprehensive Meta-Analysis, JASP*)
Multi-level modeling (*R, SPSS, JASP*)
Latent growth curve modeling (*R, JASP)*
Power analysis (*G*Power*)
Experiment program development (*E-Basic, Open Sesame, PsyToolkit*)
Web design (*HTML, CSS*)
Website management and graphic design (*Adobe Dreamweaver, Photoshop, Illustrator*)

PROFESSIONAL DEVELOPMENT

Fall	2018	Future Academic Scholars in Teaching Fellow
Spring	2017	Leadership Academy at Michigan State University
Summer	2016	Certification in College Teaching Institute
Summer	2016	Introductory & Intermediate Structural Equation Modeling Workshop
Summer	2015	Teaching Assistant Institute at Michigan State University