

ALEXANDER PATRICK BURGOYNE

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EDUCATION

- 2018 – Present Cognition and Cognitive Neuroscience Doctoral Program
Michigan State University, Department of Psychology
Advisor: D. Zach Hambrick, Ph.D.
- 2015 – 2018 Master's Degree
Cognition and Cognitive Neuroscience
Michigan State University, Department of Psychology
Advisor: D. Zach Hambrick, Ph.D.
Committee: Kimberly M. Fenn, Ph.D. & Lauren J. Harris, Ph.D.
- 2014 Bachelor of Arts in Psychology
Michigan State University, College of Social Science

HONORS AND AWARDS

- 2018 Research Enhancement Fellowship Award, Michigan State University
- 2017 Summer Fellowship Award, Michigan State University
- 2015 Rasmussen Fellowship Award, Michigan State University
- 2014 Graduated with Honors
- 2010, 2011, 2013 Dean's List

PUBLICATIONS

- Sisk, V., **Burgoyne, A. P.**, Macnamara, B. N., Sun, J., Butler, J. L., & Macnamara, B. N. (in press). To What Extent and Under Which Circumstances Are Growth Mindsets Important to Academic Achievement? Two Meta-analyses. *Psychological Science*.

- Hambrick, D. Z., Altmann, E., & **Burgoyne, A. P.** (in press). A Knowledge-Activation Approach to Testing the Circumvention-of-Limits Hypothesis. *American Journal of Psychology*.
- Hambrick, D. Z., **Burgoyne, A. P.**, Macnamara, B. N., & Ullén, F. (in press). Toward a Multifactorial Model of Expertise: Beyond Born Versus Made. *The New York Academy of Sciences*.
- Hambrick, D. Z., **Burgoyne, A. P.**, & Oswald, F. L. "Domain-General Models of Expertise: The Role of Cognitive Ability." To appear in *Oxford Handbook of Expertise: Research and Application*. Eds. Ward, P., Schraagen, J. M., Gore, J., & Roth, E. Oxford: Oxford UP.
- Burgoyne, A. P.**, Hambrick, D. Z., Moser, J. S., & Burt, S. A. (under review). Altering Mindsets with a Brief Online Intervention.
- Mix, K., Hambrick, D. Z., Satyam, V. R., **Burgoyne, A. P.**, Levine, S. C. (under review). The Latent Structure of Spatial Skill: A Test of the 2 x 2 Typology.
- Burgoyne, A. P.**, Nye, C. D., Macnamara, B. N., Charness, N., & Hambrick, D. Z. (under review). The Impact of Domain-Specific Experience on Chess Skill: Re-Analysis of a Key Study.
- Hambrick, D. Z., **Burgoyne, A. P.**, Campitelli, G., & Macnamara, B. N. (2018). "Working Memory, Thinking, and Expertise." *International Handbook of Thinking and Reasoning*. Eds. Ball, L. J. & Thompson, V. A. 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." *The Science of Expertise*. Eds. Hambrick, D. Z., Campitelli, G., & Macnamara, B. N. Psychology Press.
- 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*.
- 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.

POPULAR WRITING

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 POSTERS

- 2017 “Cognitive Determinants of Multitasking Ability”
Association for Psychological Science Annual Meeting
Boston, MA, May 25-28, 2017 (*poster*)
- 2017 “The Impact of Domain-Specific Experience on Chess Skill: Re-Analysis
of a Key Study”
Midwest Psychological Association Conference
Chicago, IL, April 20-23, 2017 (*presentation*)
- 2016 “Acquiring Skill in Music”
Midwest Psychological Association Conference
Chicago, IL, May 5-7, 2016 (*poster*)
- 2016 “The Relationship Between Intelligence and Expertise in Chess:
A Meta-Analysis”
Midwest Psychological Association Conference
Chicago, IL, May 5-7, 2016 (*presentation*)

COGNITIVE ABILITY TESTING SOFTWARE

2017 Visual Arrays Task (E-Prime v2)
2017 Choose-A-Move Chess Test (E-Prime v2)
2017 Chess Knowledge Test (E-Prime v2)
2017 Typing Speed Test (E-Prime v2)
2016 Reading Comprehension Test (E-Prime v1 and v2)
2016 Pattern Comparison Test (E-Prime v1 and v2)
All programs are free to download at www.scienceofexpertise.com/alex

WEB DESIGN AND MANAGEMENT

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

ACADEMIC POSITIONS

2015 – present 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.

RESEARCH INTERESTS

Expertise and skill acquisition, individual differences, working memory and attention, perseverance and grit, personnel selection, implicit theories of ability, creativity, task switching and multitasking, longitudinal predictors of competency

ACADEMIC SERVICE

- 2017 Reviewer for the following journals: *Journal of Behavioral Decision Making*, *Clinical Psychological Science*, *Journal of Experimental Psychology: General*.
- 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

Statistical analysis (*AMOS, SPSS, R, G*Power, MPlus*)
Experiment design and presentation (*E-Prime*)
Programming (*HTML, E-Basic*)
MIDI data extraction and analysis (*Anvil Studio*)
Video & audio Editing (*Final Cut Pro, Audacity*)
Web and graphic design (*Adobe Dreamweaver, Photoshop, Illustrator*)

PROFESSIONAL DEVELOPMENT

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

PROFESSIONAL MEMBERSHIP

2015 – present	Midwest Psychological Association Member
2015 – present	American Psychological Association Member