

# ALEXANDER PATRICK BURGOYNE

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## EDUCATION

- 2015 – present      Master's Degree (2018, expected)  
Michigan State University, Department of Psychology  
Cognition and Cognitive Neuroscience Doctoral Program  
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

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

## 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., **Burgoyne, A. P.**, Campitelli, G., & Macnamara, B. N. (in press). "Working Memory, Thinking, and Expertise." *International Handbook of Thinking and Reasoning*. Eds. Ball, L. J. & Thompson, V. A. Psychology Press.
- 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.**, 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., Altmann, E., & **Burgoyne, A. P.** (under review). A Knowledge-Activation Approach to Testing the Circumvention-of-Limits Hypothesis.

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](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*)

## **SOFTWARE PROGRAMS**

- 2017 Change Detection Task (E-Prime v2.x)  
2017 Choose-a-Move Chess Test (E-Prime v2.x)  
2017 Chess Knowledge Test (E-Prime v2.x)  
2017 Typing Speed Test (E-Prime v2.x)  
2016 Reading Comprehension Test (E-Prime v1.x and v2.x)  
2016 Pattern Comparison Test (E-Prime v1.x and v2.x)  
All programs are free to download at [www.scienceofexpertise.com/alex](http://www.scienceofexpertise.com/alex)

## **WEB DESIGN AND MANAGEMENT**

- [www.scienceofexpertise.com](http://www.scienceofexpertise.com) – Website for the Expertise Laboratory  
[www.journalofexpertise.org](http://www.journalofexpertise.org) – Official website for the Journal of Expertise

## **ACADEMIC POSITIONS**

- 2015 – present Graduate Research Assistant/Lab 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 cognitive control, perseverance and grit, implicit theories of ability, creativity and improvisation, 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 (*SPSS, R, Excel, G\*Power*)  
 Experiment design and presentation (*E-Prime*)  
 Programming (*HTML, E-Basic*)  
 MIDI data extraction and analysis (*Anvil Studio*)  
 Video & Audio Editing (*Final Cut Pro, Audacity*)  
 Graphic design (*Adobe Photoshop, Illustrator*)  
 Web design (*Adobe Dreamweaver*)

## **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**

- 2017 – present           MSU ArtFest Board of Directors
- 2015 – present           Midwest Psychological Association Member
- 2015 – present           American Psychological Association Member