

THOMAS GORMAN | CV

Cognitive Scientist

Department of Psychological and Brain Sciences
1101 E. 10th St.
Bloomington, IN 47405

 [tegorman13@github.io](https://github.com/tegorman13)
 [tegorman13](#)
 tegorman@iu.edu

Education

- | | |
|-----------------|--|
| 2017 - May 2024 | University of Indiana - Bloomington
PhD in Psychology and Cognitive Science, |
| 2011 - 2015 | University of Wisconsin Madison
B.Sc. in Psychology, |

Research Experience

Percepts and Concepts Lab

- Principal Investigator: Robert Goldstone, PhD
- Graduate Student (2017 - Present)

Learning and Transfer Lab (University of Wisconsin-Madison)

- Principal Investigator: C. Shawn Green, PhD
- Lab Manager / Research Coordinator (2015-2017)
- Undergraduate Research Assistant (2013 - May 2015)

Alexander Lab – Medical Physics (University of Wisconsin-Madison)

- Principal Investigator: Andrew Alexander, PhD
- Research Coordinator (2015 – 2017)

Center for Healthy Minds (University of Wisconsin-Madison)

- Principal Investigator: Richard J. Davidson, PhD
- Undergraduate Research Assistant (January 2014 - May 2015)

Skills

Category	Skills
Programming	- R (Quarto, Rmarkdown, Shiny) - JavaScript - Python (jupyter, torch, tensorflow) - Bash (Shell scripting, Workflow automation) - MATLAB (psychtoolbox)
Computational Modeling	- Artificial Neural Networks - Exemplar Models - Bayesian Statistics - Mixed Effect Models - Similarity Scaling - Approximate Bayesian Computation - Individual Differences
Data Analysis	- Multilevel Modeling - Bayesian Statistics - Mixed Effects Models - Dimensionality Reduction - Frequentist ANOVA/Regression
Experimental Skills	- Behavioral Tasks - Online Data Collection (jsPsych for web-based experiments) - Survey Data Collection (Qualtrics) - Mechanical Turk - MRI & EEG
Workflow Automation & Version Control	- Multi-language workflows (integrating R, Bash, Python) - Git (Documentation, backup, branching, collaboration)
Tools	- RStudio - VS Code - Vim/Neovim - Obsidian
Miscellaneous Skills	- Web Scraping - SQL - Website Design

Journal Articles and Conference Proceedings

- **Gorman**, T. E., & Goldstone, R. L. (2022). An instance-based model account of the benefits of varied practice in visuomotor skill. *Cognitive Psychology*, 137, 101491.
- Bazyldo, A., Kecskemeti, S., Cochrane, A., **Gorman**, T., Rokers, B., Dean, D., Green, C. S., & Alexander, A. L. (2021). Assessment of R1 Relaxometry Changes Induced via Repeated Videogame Training as a Measure of Neuroplasticity in College-aged Brains. In *Proceedings of the ISMRM & SMRT Annual Meeting & Exhibition. An Online Experience*. [link](#)
- Patrick, A., Dean, D., **Gorman**, T., Green, C. S., & Alexander, A. (2019). Assessment of Microstructural Changes Induced via Repeated Videogame Training as a Measure of Neuroplasticity in Normal Developing, College-age Brains. In *Proceedings of the 27th Annual Meeting & Exhibition of the International Society for Magnetic Resonance in Medicine*. Montréal, QC, Canada. [link](#)
- Dean, C. D., Patrick, A. M., **Gorman**, T., Green, C. S., & Alexander, A. L. (2018). Neuroplastic Changes of Myelin Microstructure With Video Game Play. In *Proceedings of the Joint Annual Meeting ISMRM-ESMRMB*. Paris, France. [link](#)
- Kattner, F., Cochrane, A., Cox, C. R., **Gorman**, T. E., & Green, C. S. (2017). Perceptual learning generalization from sequential perceptual training as a change in learning rate. *Current Biology*, 27(6), 840-846.
- **Gorman**, T.E., & Green, C.S. (2016). Short-term mindfulness intervention reduces the negative attentional effects associated with heavy media multitasking. *Scientific Reports*, 6.

Book Chapters

- **Gorman**, T.E., Gentile, D.A., & Green, C.S. Video game addiction: a short primer (2018). *American Journal of Play*, 10 (3), 309-327
- **Gorman**, T.E., & Green, C.S. (2017). Young minds on video games. In F. Blumberg & P. Brooks, (Eds.), *Cognitive development in digital contexts*. 121-143.
- Green, C. S., **Gorman**, T., & Bavelier, D. (2016). Action Video-Game Training and Its Effects on Perception and Attentional Control. In *Cognitive Training* (pp. 107-116). Springer International Publishing.

Presentations

- Half Day Tutorial on Measuring Mindfulness Behaviorally: Onsite/Online Data Collection with jsPsych
 - Cognitive Science Conference – 2018
- Does interleaving go the distance? Exploring the effect of dissimilarity on interleaved category learning
 - Math Psych/ICCM 2018

- Short term mindfulness intervention reduces cognitive deficits in heavy media multi-taskers
 - Undergraduate Research Symposium – UW-Madison – April 16th, 2015

Awards

IU-Bloomington – Development Training Grant – beginning Fall 2019
IU-Bloomington - Steinmetz Summer Research Award - 2018
UW-Madison - Undergraduate Research Scholar Award – 2015
UW-Madison - Hilldale Undergraduate/Faculty Research Fellowship – 2014

Ad-hoc Reviewer

Cognitive Science
Journal of Experimental Psychology: General
Journal of Experimental Psychology: Human Perception and Performance
Contemporary Educational Psychology

Conferences

Cognitive Science Conference - 2021
Cognitive Science Conference - 2018
Mathematical Psychology & ICCM 2018
Boston Meeting on Methods in Cognitive Training (NSF Sponsored) – May 2017