

THOMAS E. GORMAN | CV

Cognitive Scientist

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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	<ul style="list-style-type: none">- R (Quarto, Rmarkdown, Shiny)- JavaScript- Python (jupyter, torch, tensorflow)- Bash (Shell scripting, Workflow automation)- MATLAB (psychtoolbox)
Computational Modeling	<ul style="list-style-type: none">- Artificial Neural Networks- Exemplar Models- Bayesian Statistics- Mixed Effect Models- Similarity Scaling- Approximate Bayesian Computation- Individual Differences
Data Analysis	<ul style="list-style-type: none">- Multilevel Modeling- Bayesian Statistics- Mixed Effects Models- Dimensionality Reduction- Frequentist ANOVA/Regression
Experimental Skills	<ul style="list-style-type: none">- Behavioral Tasks- Online Data Collection (jsPsych for web-based experiments)- Survey Data Collection (Qualtrics)- Mechanical Turk- MRI & EEG
Workflow Automation & Version Control	<ul style="list-style-type: none">- Multi-language workflows (integrating R, Bash, Python)- Git (Documentation, backup, branching, collaboration)
Tools	<ul style="list-style-type: none">- RStudio- VS Code- Vim/Neovim- Obsidian
Miscellaneous Skills	<ul style="list-style-type: none">- 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.

Reviews and 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 *Cognitive development in digital contexts*. 121-143. Academic Press.
- 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