**Zach Shipstead, PhD.**

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**Education**

PhD. - Cognition and Brain Science, Georgia Institute of Technology

Minor in Quantitative Psychology (statistics)

M.S. - Applied Psychology, Montana State University

B.A. - Psychology, Alma College

Minor in Mathematics and Computer Science

**Work Experience**

**Research Scientist/Assistant Professor - Cognition 2020-Present**

**University of Illinois, Urbana-Champaign, IL**

* Completed logistic regression/machine learning [study](https://rpubs.com/zshipstead/880190) predicting people who were likely to engage in thought correction
* Created online R Shiny apps for statistical analysis ([regression](https://lggihh-zach-shipstead.shinyapps.io/Regression/) and [t-test](https://lggihh-zach-shipstead.shinyapps.io/ttest/)).
* Created online R Shiny app that shares my [historical datasets](https://lggihh-zach-shipstead.shinyapps.io/DataSets/) via SQL database hosted at AWS.
* [Published](https://englelab.gatech.edu/articles/2021/Martin%20et%20al.%20(2021)%20Visual%20arrays.pdf) factor analysis-based paper validating change-detection ability as an indicator of individual differences in human attention control.
* Developed and taught zoom-based course on research methods and statistics (with R).
* To facilitate learning (both for students and researchers), I developed my website as a quick-reference guide to R.

**Research Associate - Center for Vulnerable Road User Safety 2019-2020**

**Virginia Tech Transportation Institute, Blacksburg, VA**

* Redesigned existing grant on development of next-generation impaired driving tests to bring in line with funding agencies original intent.
* Participated in grant writing by recommending tests and performing power analyses.
* Performed state of the literature review regarding the extant literature on drugged-driving and drug detection technology (accuracy, sensitivity, specificity).
* [Published](https://englelab.gatech.edu/articles/2019/Martin_Shipstead_Harrison_Redick_Bunting_Engle_2019.pdf) structural equation model research predicting adult native English speakers who are most apt to learn a second language.

**Research Scientists/Assistant Professor - Cognition 2018-2019**

**Colby College, Waterville, ME**

* Principal researcher of Working Memory and Attention Control Lab, studying individual differences in human attention.
* Developed SQL database to store my datasets from the past five years.
* Taught research methods and statistics using SPSS.
* [Published](https://www.researchgate.net/publication/328247458_Visuospatial_working_memory_auditory_discrimination_and_attention) research using structural equation modeling, ANOVA, and regression analysis.