Douglas Getty, M.S.

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Research Statement

Broadly, I am interested in the ways humans (mis)understand the world around them. My current work explores how comprehenders obtain non-veridical representations of language input, which has implications for text comprehension, memory for language, and language-mediated learning.

Experience

2018 – Present **Graduate Student Researcher**
University of Pittsburgh

- Conducted statistical modeling of experimental data using Bayesian and Frequentist multilevel linear regression in R
- Designed and implemented more than 15 online cognitive experiments using PsychoPy [*Python*], PCIbex [*JavaScript*] and Qualtrics, and collected data via MTurk and Pavlovia
- Published and presented research investigating how comprehenders obtain non-veridical representations of language, and influences on memory for language
- Obtained NSF Graduate Research Fellowship, awarding more than $100,000 over 3 years

2020 **Political Data Fellow**
Bluebonnet Data

- Computed descriptive statistics on voter file data and communicated implications of that data for campaign operations, in particular voter targeting and developing a “persuadable voter” universe
- Cleaned FEC text files with more than 60,000 names and used to expand voter universe
- Designed a dynamic dashboard to track KPIs such as doors knocked and calls made, with daily updating automated via Google Cloud

2016 - 2018 **Research Associate**
University of Utah Center for Driving Safety & Technology

- Collected experimental data to investigate usability of automotive voice control systems
- Conducted linear regression analyses using R on two published manuscripts
- Co-authored vehicle usability reports assessing strengths and weaknesses of vehicle interfaces, making data-driven recommendations for improvements

Education

2021 - Present **University of Pittsburgh,** Pittsburgh, PA
Ph.D. in Cognitive Psychology (anticipated 2024)

2018 - 2021 **University of Pittsburgh,** Pittsburgh, PA
M.S. Cognitive Psychology

2012 - 2016 **Westminster College,** Salt Lake City, Utah
B.S. Psychology, Applied Mathematics Minor
Cum Laude, Research Honors, Psychology Outstanding Graduate

Technical Skills

Software*:* **R** [*dplyr, ggplot2, brms, lme4, tidymodels, rvest, rstanarm, Shiny, RMarkdown*]*,* **Python** [*sklearn, numpy, PsychoPy],* Matlab, Git, GitHub, Jupyter Notebook
Other skills: Multilevel linear modeling, null hypothesis significance testing, Bayesian data analysis, experimental design, web-scraping, machine learning for data labeling

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Publications

Getty, D.J., Warren, T., Fraundorf, S.H. (In Prep). How Do Comprehenders Understand Anomalous Sentences?

Getty, D.J. & Fraundorf, S.H. (In Prep). Can self-pacing tasks measure structural priming in language comprehension? An exploratory and confirmatory study.

Getty, D.J., Adams, R., Warren, T. & Tokowicz, N. (In Prep). Sensitivity of L2 learners of English to morphosyntactic violations.

Getty, D.J. & Fraundorf, S.H. (In Prep). Do Listeners Care About the Speaker or the Input? Evidence from Structural Priming

Getty, D.J., Fraundorf, S.H. (2022, Preprint). Non-literal Syntactic Representations are Driven by Predictive Processing: Evidence from Meta-Analysis and Speaker Accent. *PsyArXiv*.

Constantine, R., **Getty, D.J.,** Fraundorf, S.H. (2022). Syntactic Adaptation to Native versus Non-native Speech.

Strayer, D. L., **Getty, D. J.,** Biondi, F., & Cooper, J. S. (2020). The Multitasking Motorist and the Attention Economy. In S. M. Lane and P. Atchley (Eds). *Human Capacity in the Attention Economy*. APA Press.

Strayer, D. L., Cooper, J. M., Goethe, R. M., McCarty, M. M., **Getty, D. J.**, & Biondi, F. (2019). Assessing the Visual and Cognitive Demands of In-Vehicle Infotainment Systems. *Cognitive Research: Principles and Implications*.

Strayer, D. L., Cooper, J. M., Goethe, R. M., McCarty, M. M., **Getty, D. J.**, Wheatley, C.L., Motzkus, C.M., Goethe, R.M., Biondi, F., & Horrey, W.J. (2019). Visual and Cognitive Demands of CarPlay, Android Auto, and Five Native Infotainment Systems. *Human Factors*, 0018720819836575.

Motzkus, C. J., **Getty, D. J.,** Campos, A., Cooper, J. M., & Strayer, D. L. (2018). Utilizing a Remote LED Stimulus to Concurrently Measure Cognitive and Visual Task Demand. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting* (Vol. 62, No. 1, pp. 1-5). Sage CA: Los Angeles, CA: SAGE Publications.

Getty, D.J., Biondi, F., Morgan, S. D., Cooper, J. M., & Strayer, D. L. (2018). The Effects of Voice System Design Components on Driver Workload. *Transportation Research Record*, *2672*(37), 94-100.

Biondi, F., **Getty, D.J.,** McCarty, M., Goethe, R., Cooper, J. M., & Strayer, D. L. (2018). The Challenge of ADAS Assessment: A Scale for the Assessment of the HMI of Advanced Driver Assistance Technology. *Transportation Research Record Journal of the Transportation Research Board*, 1-38.