

DOUGLAS GETTY, M.S.

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SUMMARY

I'm a data-oriented researcher with 9 years' experience in statistical analysis of human behavioral data. My work has focused on understanding human language comprehension.

SKILLS

- Statistical modeling (R)
- Experimental design
- Data analysis (R)
- Data cleaning (R, Python)
- Bayesian multilevel modeling
- Machine learning
- Data visualization
- Technical writing
- Public speaking
- 3 years Croatian/Serbian

EDUCATION

- Ph.D. in Cognitive Psychology, U. of Pittsburgh, 2024 (anticipated)
- M.S. in Cognitive Psychology, U. of Pittsburgh, 2021
- B.S. in Psychology, Applied Math Minor, Westminster College, 2016

RELEVANT EXPERIENCE

Graduate Student Researcher

2018-Present (anticipated Spring 2024), U. of Pittsburgh

- Conducted statistical modeling of behavioral data from 15+ experiments, resulting in 6 first-author papers in preparation for submission to peer-reviewed journals
- Developed and lead end-to-end research projects, from identifying research questions, design of experiments, and analyzing results
- Created frameworks for assessing data quality and conducted sensitivity analyses of data quality metrics on statistical inferences
- Trained machine learning classifiers to annotate human language production data using scikit-learn in Python
- Delivered 12+ presentations of ongoing research projects at internationally-attended conferences
- Secured \$100,000+ in research funding over 3 years (NSF GRFP)

Political Data Fellow

2021, Bluebonnet Data

- Identified 3,000 new targetable voters through cleaning and analysis of FEC individual contributions data containing 60,000+ names
- Automated a dynamic dashboard using Google Sheets and Google Cloud to track daily campaign KPIs
- Identified key groups of "persuadable voters" in an analysis of internal campaign polling data

On-Road Project Lead

2016-2018, Center for Distracted Driving Research, U. of Utah

- Identified key limitations of automotive UIs, including voice system accuracy and delay time, using experimental methods
- Made data-driven recommendations for UI improvements to Apple CarPlay, Android Auto, Ford, and more
- Conducted key analyses for multiple research projects yielding published manuscripts, using regression methods in R

- Getty, D.J.** & Fraundorf, S.H. (2023, Preprint). Phrase-by-phrase self-pacing tasks are not sensitive to structural priming: Methodological and theoretical implications. <https://psyarxiv.com/ytdb2>
- 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*. <https://psyarxiv.com/e3kcm>
- Constantine, R., **Getty, D.J.**, Fraundorf, S.H. (2022). Syntactic Adaptation to Native versus Non-native Speech. <https://doi.org/10.1371/journal.pone.0275191>
- Getty, D.J.**, Warren, T., Fraundorf, S.H. (In Prep). How Do Comprehenders Understand Anomalous Sentences?
- Getty, D.J.**, Adams, R., Warren, T. & Tokowicz, N. (In Prep). Sensitivity of L2 learners of English to morphosyntactic violations.
- Getty, D.J.**, Wei, X. Chen, L. (In Prep). Structural priming of the Chinese dative construction production for L2 Chinese speakers.
- Getty, D.J.** & Fraundorf, S.H. (In Prep). Do Listeners Care About the Speaker or the Input? Evidence from Structural Priming
- 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.