Bethany Gardner, PhD

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Cognitive psychology PhD with expertise in statistical analysis, quantitative methods, & statistical programming. Experience collecting, validating, and analyzing behavioral, survey, and text data. Transitioning out of academia and looking to leverage my combination of social science and programming skills in a data science role.

EXPERIENCE

Data Scientist & Statistical Consultant

Freelance

📅 2023–current 📍 Remote

- **Data science:** Statistical consulting, statistical programming, data visualization, and data wrangling jobs, primarily in R
- **Consulting:** Have worked with 40+ clients across academia, sci-comm, UX research, healthcare, and AI development

Graduate Researcher

Vanderbilt University

📅 2018–2023 📍 Nashville, TN

- **Experimental design & statistical analysis:** Designed and implemented experiments; collected survey, writing, speech, and eye-tracking data from 2,000+ participants; and performed regression analyses for 10 projects about language processing and learning
- **Project management & data validation:** Designed & coordinated project about memory for conversation that involved developing, documenting, & validating a coding scheme for complex text data and supervising 2–4 undergrad RAs per semester
- **Data science & statistical programming:** Translated, optimized, and documented legacy code; all projects published with open data and reproducible analyses
- **Funding:** Secured $17k in research grants from NSF & Vanderbilt

Graduate Teaching Assistant

Vanderbilt University

📅 2021–2023 📍 Nashville, TN

- **Organization:** Responsible for grading homework and exams for 100 students in intro linguistics and statistics courses
- **Teaching:** Guest lectured and held biweekly office hours, supporting students learning new problem-solving strategies

Undergraduate Research Assistant

U. of Rochester, Vanderbilt U., and U. de Granada

📅 2015–2018 📍 Various

- **Data annotation & attention to detail:** Annotated conversation recall and acoustic data for psycholinguistics experiments
- **Data management:** Designed materials and collected data for language production, processing, and acquisition experiments
- **Communication:** Independent projects resulted in 5 conference presentations and 1 peer-reviewed publication

SKILLS

statistical analysis

regression modeling

quantitative methods

experimental design/AB testing

behavioral data survey data

data visualization

data management

data annotation and validation

reproducible analysis pipelines

scientific writing and editing

research presentations

CODING & SOFTWARE

R, Quarto/R Markdown, Word, PowerPoint ●●●

Python, Excel, Git, Latex ●●○

AWS, Docker, HTML/CSS, Java, Linux, MATLAB, R Shiny, SAS, SPSS, STATA ●○○

EDUCATION

PhD, Psychological Sciences

Vanderbilt University

📅 2018–2023 📍 Nashville, TN

BS, Brain & Cognitive Sciences

University of Rochester

📅 2014–2018 📍 Rochester, NY