BETHANY GARDNER

statistical programming & modeling | data science | linguist & cognitive scientist

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EXPERIENCE

Freelance Data Science & Statistical Consulting
Upwork

 2023–current   Remote

- Statistical consulting, statistical programming, data visualization, and data preprocessing, primarily in R
- Working with clients in academia, scicomm, UX research, healthcare, and AI development

Graduate Researcher
Vanderbilt University

 2018–2023   Nashville, TN

- Designed & coded experiments; collected survey, writing, speech, & eyetracking data from 2,000+ participants; and performed statistical analyses for projects investigating language processing and learning
- Designed & coordinated project about memory for conversation that involved developing, documenting, and validating a coding scheme for complex text data and supervising 2–4 undergrad RAs per semester
- Secured $17,000 in funding from the NSF and Vanderbilt for dissertation research
- Translated, optimized, and documented legacy code
- Projects published with open data & reproducible analyses

Graduate Teaching Assistant
Vanderbilt University

 2021–2023   Nashville, TN

- TA for Intro to Linguistics (2x), Intro to Statistical Analysis (1x)
- Responsible for grading homework and exams, guest lecturing, and holding biweekly office hours to support undergrad students learning new problem-solving strategies

Undergraduate Research Assistant
Rochester, Vanderbilt, Universidad de Granada

 2015–2018   Various

- Annotated conversation recall & acoustic data, requiring high attention to detail; designed materials & collected data for language production, processing, & acquisition experiments
- Independent projects resulted in conference presentations and a peer-reviewed publication

EDUCATION

Ph.D. in Psychological Sciences
Vanderbilt University

 2018–2023   Nashville, TN

- Quantitative Methods minor
- Research focus in Cognitive Psychology and Psycholinguistics

B.S. in Brain & Cognitive Sciences
University of Rochester

 2014–2018   Rochester, NY

- Linguistics, Philosophy, Spanish minors
- Cum laude with honors in research

SKILLS

statistical analysis   logistic regression

multilevel/mixed-effects modeling

data visualization   data annotation

data preprocessing   data management

experimental design   behavioral data

survey data   eyetracking data

reproducible analysis pipelines

scientific writing and editing

research presentations

CODING & SOFTWARE

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

Excel, Git/Github, Python   ● ● ○

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