

# BETHANY GARDNER

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

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📞 302-521-2494

📍 Philadelphia area



## 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



Python, Excel, Git, LaTeX



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

