

GRANT M BERRY, PHD

L I N G U I S T | D A T A A N A L Y T I C S S P E C I A L I S T | S T R E S S B A K E R



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EXPERIENCE

2020-Present

Assistant Professor (Cognitive Science) | Villanova University

- Design courses and instruct undergrads on linguistics, cognitive science, and AI
- Build an interdisciplinary, independent research program focused on language use, cognitive processing, and the human ability to adapt to change
- Publish results of quantitative research in 4 high-impact academic journals
- Mentor over 20 undergraduate researchers as principal investigator of LUV Lab
- Statistical modeling of multimodal language data at scale in R and Python
- Write technical grant proposals to secure over \$50k in research funding

2021-2022

Applied Scientist II | Amazon

- Fine-tuned data quality program for Prime Video subtitle localization
- Collaborated with international colleagues to develop proprietary human-in-the-loop localization software with verbosity and style personalization
- Published collaborative paper at COLING 2022 conference

2019-2020

Technical Program Manager II | Amazon

- Created and managed a data quality program to support sourcing language data for internationalizing large language models using MTurk, SQL, and Tableau
- Specified KPIs and created automated alarms using AWS Cloudwatch
- Forecasted data throughput using generalized additive modeling
- Compiled quality metrics and reports for executives and stakeholders weekly

2018-2019

Language Engineer II | Amazon

- Created ontologies and phrase maps for developing new features for home and personal use cases (e.g., timers, reminders, recipes)
- Developed and deployed deterministic and probabilistic NLP artifacts to production environments using git, FSTs, and virtual machines
- Composed onboarding runbooks and trained 6 new teammates

SELECTED MEDIA OUTREACH

[Gotta have rizz to slay: Oxford's Word of the Year](#) | KYW News Radio

[Alexa, how do you work?](#) | Villanova Magazine

[Community Conversations: Sociolinguistics](#) | Main Line Network

[Does Elmo have a Philly Accent?](#) | Philadelphia Magazine

SELECTED PUBLICATIONS (*denotes undergraduate co-author)

Patchell, A.*, & **Berry, G.M.** (2024). TH-stopping in Philadelphia Puerto Rican English. *Language Variation and Change*.

Gupta, P., Nelakanti, A., **Berry, G.M.**, & Sharma, A. (2022). Interactive post-editing for verbosity-controlled translation. Proceedings of COLING 2022.

Requena, P.E., & **Berry, G.M.** (2021). Cross-linguistic influence in L1 processing of morphosyntactic variation: Evidence from L2 learners. *Applied Psycholinguistics*

Berry, G.M., & Ernestus, M. (2018). Phonetic alignment in English as a *lingua franca*: Coming together while splitting apart. *Second Language Research*.

Full list: [<https://scholar.google.com/citations?user=Hf8ez5EAAAAJ&hl>]

EDUCATION

2018 PhD Language Science

2014 MA Spanish Linguistics

2010 BS Mathematics

2010 BA Spanish

VISITING SCHOLARSHIP

2024 Radboud U

2017 U of Pennsylvania

2015 Max Planck Institute

2015 Linguistic Society Institute

SELECTED AWARDS

2023 Research Catalyst (\$35k)

2018 Ray Lombra Award

2017 NSF Grant (\$18k)

2011 Fulbright Grant (Argentina)

SKILLS

Data Science: Data visualization,

Virtual machines; CLIs; APIs;

Version tracking; Bayesian

statistics; Time series analysis;

Feature selection; Data pipelines

Language Science: Generative AI,

Prompt Generation, ASR;

Language variation; Ambiguity;

Localization; Multilingualism;

Speech acoustics

Program Management: Effort

scoping; KPIs; Roadmapping;

Agile; Knowledge translation

LANGUAGES/PACKAGES

- Near-native fluency in **Spanish**

- **Python 3.x:** vscikit-learn, pytorch,

pandas, nltk, librosa, huggingface,

jupyter, matplotlib, seaborn, mne

- **R:** tidyverse, rstanarm, lme4, mgcv

- **SQL, shell, git, SSH, AWS CLI,**

PRAAT, Anaconda