

GRANT M BERRY, PHD

LANGUAGE SCIENTIST.POLYMATH.DATA EXPERT.CAT LOVER.

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EXPERIENCE

2020-Present

Assistant Professor | Villanova U

- Develop and teach linguistics, cognitive science, AI, and Spanish courses
- Advance an independent research program on individual differences in language use, cognitive processing, and human adaptation to change
- Publish results of quantitative studies in 4 high-impact academic journals
- Mentor >20 undergraduate researchers in Language Use and Variation Lab
- Statistical modeling of multimodal language data at scale in R and Python
- Write coherent, persuasive grant proposals to secure >\$50k in research funding

2021-2022

Applied Scientist II | Amazon Localization Tech

- Audited 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 Mgr. II | Amazon Applied Modeling & Data Science

- Owned a data quality program to support sourcing language data and building large language models for natural language processing
- Specified and monitored data quality alarms using AWS Cloudwatch
- Forecasted data collection using generalized additive modeling
- Reported quality metrics to executives and stakeholders weekly

2018-2019

Language Engineer II | Amazon Alexa Household Organization

- 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 using git, FSTs, and virtual machines to production environments
- Composed onboarding runbooks and trained 6 new teammates

MEDIA OUTREACH

Gotta have *rizz* to *slay*: Oxford's Word of the Year | *KYW News Radio*

Alexa, how do you work? | *Villanova Magazine*

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: LLMs, 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:** scikit-learn, pytorch, pandas, nltk, librosa, langchain, huggingface, jupyter, conda, matplotlib, seaborn, mne
- R:** tidyverse, rstanarm, lme4, mgcv
- SQL, shell, git, SSH, AWS CLI, CUDA, Docker, PRAAT**