GRANT M BERRY, PHD

LANGUAGE SCIENTIST. ML/DATA EXPERT. STRESS BAKER.

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EXPERIENCE

2020-Present
Assistant Professor | *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 a 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*

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**