# **GRANT M BERRY, PHD**

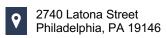
LINGUIST | DATA ANALYTICS SPECIALIST | STRESS BAKER



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### **EXPERIENCE**

#### 2020-Present

## Assistant Professor (Cognitive Science) | Villanova University

- Design courses and instruct undergrads on linguistics, cognitive science, and Al
- 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-theloop 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 Science2014 MA Spanish Linguistics2010 BS Mathematics2010 BA Spanish

### VISITING SCHOLARSHIP

2024 Radboud U2017 U of Pennsylvania2015 Max Planck Institute2015 Linguistic Society Institute

#### **SELECTED AWARDS**

2023 Research Catalyst (\$35k)2018 Ray Lombra Award2017 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, Ime4, mgcv
- SQL, shell, git, SSH, AWS CLI, PRAAT, Anaconda

Last Updated: 08--2024