

# GRANT M BERRY, PHD

LANGUAGE SCIENTIST. ML/DATA EXPERT. STRESS BAKER.

+1 (857) 762-4887  
+1 (314) 827-4237

berry.grant@gmail.com  
grant.berry@villanova.edu

2740 Latona Street  
Philadelphia, PA 19146

grantberry.info  
luv-lab.info

## 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=Hf8ez5EAAAAAJ&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**