# GRANT M BERRY, PHD

## COMPUTATIONAL SOCIOLINGUIST | COGNITIVE SCIENTIST

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## EXPERIENCE

**2020-Present**
**Assistant Professor | *Villanova University* Villanova, PA**
- Teach data-centric courses on fairness in AI, language in society, and cognition
- Lead team investigating relationships among behavioral, acoustic, and neural data
- Publish peer-reviewed research and present at high-visibility international venues
- Analyzed enrollment data to motivate curriculum changes in my department
- Analysis of high-dimensional experimental and database data using R and Python
  *Skills: GAMs, Regression, Dimension Reduction, Social Network Analysis, TTS*

**2021-2022**
**Applied Scientist II | Amazon Prime Video** *Remote*
- Leveraged insights from global subtitle data to improve localization quality
- Developed localization software with verbosity and style personalization
- Published collaborative paper at COLING 2022 conference
  *Skills: Regression, Text Analysis, Data Mining, Machine Learning*

**2019-2020**
**Technical Program Manager II | Amazon Alexa** *Cambridge, MA*
- Curated a data quality program to support localization of language data at scale
- Facilitated data collection for international releases of natural language models
- Specified KPIs and generated automated quality alarms with AWS Cloudwatch
- Forecasted throughput for stakeholders with generalized additive modeling
- Compiled quality metrics and communicated weekly to diverse audiences
  *Skills: SQL, R, Python, Regression, Machine Learning, Time Series Analysis*

**2018-2019**
**Language Engineer II | Amazon Alexa** *Vancouver, BC*
- Created ontologies and phrase maps for feature development in home and personal use cases (e.g., timers, reminders, recipes)
- Deployed deterministic and probabilistic NLP artifacts to production environments
- Composed onboarding runbooks and trained 6 new teammates
  *Skills: Git, Python, FSTs, Regression, Bash, Language Modeling*

## SELECTED MEDIA OUTREACH

Gotta have *rizz* to *slay*: Oxford's Word of the Year | *Philadelphia KYW News Radio*
Alexa, how do you work? | *Villanova Magazine*
Community Conversations: Sociolinguistics | *Main Line TV*, *Radnor Public Access*
Does Elmo have a Philly accent? | *Philadelphia Magazine*

## SELECTED PUBLICATIONS

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

**PhD** Spanish & Language Science
**MA** Spanish Linguistics
**BS** Mathematics
**BA** Spanish

## SELECTED AWARDS

Research Catalyst Grant
Echo 25: 25 Alumni Under 40
**NSF DDRI** Grant
**Fulbright ETA** Grant (Argentina)

## SKILLS

**Code:** R; Python; Bash; SQL

**Statistics:** Hierarchical linear/logistic regression, time series analysis, PCA, t-SNE, GAMs, Bayesian statistics

**Data Science**: Data visualization, Virtual machines; CLIs; APIs; Version tracking (git); Feature selection; Data pipelines

**Language Science**: Generative AI, Prompt Creation, ASR; Language variation and change; Ambiguity; Localization; Bilingualism; Speech acoustics

**Program Management**: Effort scoping; KPIs; Roadmaps; Agile/Scrum; Knowledge translation; Interdisciplinary communication

## TL; DR

I'm a multilingual computational social scientist who uses statistical and ML techniques to draw actionable insights from complex, multimodal data on the interaction between human beings, language, society, and technology.

*References available on request*