

Molly Lewis

Computational Social Scientist (Phd, Psychology) with 10+ years using quantitative methods to understand and predict complex social behavior. Seeking to apply my expertise in machine learning, natural language processing, and experimental design in a researcher role. Passionate about AI fairness and ethics.

Contact

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- 🔗 mllewis

Skills

- Programming
 - R / tidyverse / Shiny
 - SQL
- Data Analysis
 - Inferential statistics
 - Supervised ML (e.g., regression)
 - Unsupervised ML (clustering, PCA)
 - Unsupervised text analysis (e.g., topic models; LLMs)
 - Data visualization (e.g., ggplot2)
 - Mixed effects models
 - Network analysis (e.g., igraph)
- Tools
 - NLP
 - Redshift
 - Literate coding (e.g., R markdown)
 - Git / Github
 - Experimental design
 - Survey design

⚙ Experience

- Quantitative UX Researcher** 2023 - present
Meta, Facebook Research NYC
- Sr. Research Scientist (Quant. Researcher)** 2022 - 2023
Amazon, Alexa remote
 - Lead project examining the predictors of Alexa device success after launch, collaborating with multiple XFN
 - Extracted and wrangled massive dataset (>1B rows) of user behavior using Redshift
 - Analyzed unstructured text data (customer reviews) to identify themes related to customer engagement and sales
- Research Scientist** 2019 - 2022
Carnegie Mellon University, Social and Decision Sciences Pittsburgh, PA
 - Lead research projects, managed teams, and supervised undergraduate researchers
 - Published papers on bias in language models and presented work as senior author
 - Developed open source teaching materials for R-based research methods course and taught course twice [\[course website\]](#)
- Post-Doctoral Scholar** 2017-2019
University of Chicago (Advisor: James Evans, Sociology) Chicago, IL
 - Used multilingual large-scale language models to understand the principles governing cross-linguistic variability in semantic structure
 - Collaborated with industry partners on analysis of 1M word corpus
 - Communicated research to technical and non-technical audiences

🎓 Education

- Stanford University** PhD, 2016
Psychology, Cognitive/Developmental (Advisor: Michael C. Frank)
- Reed College** BA, 2009
Linguistics
- Other coursework: Summer Institute in Computational Social Science (Princeton, NJ, 2017); Machine Learning Summer School (Tübingen, Germany, 2013)

📖 Representative Publications

- I have authored 25+ publications in peer-reviewed journals, conference proceedings, and popular press outlets, and given over 30 invited talks (see [website](#) for full list).
- Local similarity and global variability characterize the semantic space of human languages** (Lewis, et al., 2023; *PNAS*) [\[publication\]](#)
 - Distributional semantics as a source of visual knowledge.** (Lewis, M., Zettersten, M. & Lupyan, G., 2019; *PNAS*) [\[publication\]](#)
 - Gender stereotypes are reflected in the distributional structure of 25 languages** (Lewis & Lupyan, 2020; *Nature Human Behavior*) [\[publication\]](#), [repository](#)
 - Why Responsible AI needs Psychology** (Lewis, 2022) [\[blogpost\]](#)
 - Social biases in word embeddings and their relation to human cognition.** (Caliskan & Lewis, 2021; *Atlas of Language Analysis in Psychology*) [\[publication\]](#)
 - What might books be teaching young children about gender?** (Lewis, et al., 2021; *Psych. Science*) [\[publication\]](#), [repository](#), [app](#)