

Lynette Shaw

Seattle, WA | 713-410-7782 | alt.shawla@gmail.com | [LinkedIn](#) | <https://github.com/lynetteshaw>

SKILLS

Languages: Python, SQL, R, Netlogo

Tools: pandas, numpy, sklearn, NLTK, Hugging Face, XGBoost, AWS Sagemaker SDK, gensim, NetworkX

Skills and Graduate Coursework: HLM, GLMs, MLE, PCA, clustering algorithms, NLP, BERT, BlazingText, structural topic modeling, XGBoost/random forests, network analysis, agent-based modeling (ABM)

EDUCATION

University of Washington, PhD in Sociology (Social Statistics concentration) 2016

University of Texas, BA in Physics and Sociology 2005

EXPERIENCE

Lead Data Scientist, Knowable (LexisNexis), Seattle, WA *Jan. 2021 – Present*

- Acted as lead technical manager for company's data science team; collaborated with VP of Product and Sr. Product Manager to establish, execute, and evaluate data science projects
- Used AWS Sagemaker to build custom Docker containers and endpoints for model deployment
- Specialized in creatively combining NLP and supervised learning methods to develop automated ML review and predictions of unstructured text within 100,000s of contracts
- Built custom ETL pipeline development involving AWS OpenSearch, Glue, Athena, and Sagemaker

Advisor and Founding Board Member, The Computational Democracy Project *Aug. 2013 - Present*

- Served as social science advisor to the creation of Polis, an internationally recognized, open source platform for hosting large-scale online deliberations (over 10,000+ users)
- Stewarded platform development and related non-profit's trajectory as a Board of Directors member

Data Science Fellow, Insight, Seattle, WA *Sept. 2020 – Dec. 2020*

- Developed custom process for a maternal health startup to automatically summarize biomedical texts
- Applied custom preprocessing strategy, fine-tuned BERT models, and extractive summarization to reduce text volumes requiring human reading by over 60% via an easy-to-use summarization interface

Asst. Professor and Fellow, Complex Systems, University of Michigan, Ann Arbor, MI *Sept. 2016 - Aug. 2020*

- Established the role of online communities in constituting Bitcoin's initial economic value by scraping 350k+ posts from r/Bitcoin and BitcoinTalk.org and applying K-means clustering, structural topic modeling, and other NLP analyses thereto
- Created a Bayesian ABM to formally model the emergence of economic value from social processes
- Taught graduate and undergraduate courses on the computational modeling of emergent systems
- Delivered 13 invited talks across U.S. on cryptocurrency and cognitive-cultural sociology

Graduate Assistant, University of Washington, Seattle, WA *Aug. 2009 - Aug. 2016*

- Used NLP and qualitative research to execute first large-scale, empirical analysis of Bitcoin in Sociology
- Used ABM to establish how individuals' implicit cognitive processing generates cultural dynamics
- Served as sole TA to 40 graduate students for UW's 3-course sequence in advanced social statistics