

Lynette Shaw

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SKILLS

Languages: Python, R, Netlogo

Tools: pandas, numpy, NLTK, gensim, NetworkX, ggplot, tidyverse, stm

Skills: HLM, GLMs, MLE, PCA, clustering algorithms, BERT extractive summarization, structural topic modeling, network analysis, agent-based modeling, experimental design

Expertise: social dynamics, complexity theory, cognition and culture, cryptocurrency sociology, public speaking

EXPERIENCE

Data Science Fellow, *Insight*, Seattle, WA

Sept. 2020 - Present

- Developed a tailor-made process for a health startup, MaMome, to automatically summarize key relationships between bacteria, nutrition, and maternal health from biomedical texts
- Applied custom preprocessing strategy, specialized pretrained BERT models, and extractive summarization algorithms to curated set of 60 PDFs
- Reduced text volumes requiring human reading by over 60% and created an easy-to-use summarization interface for company using AWS Sagemaker and Streamlit

Research Fellow, *Complex Systems*, University of Michigan, Ann Arbor, MI

Sept. 2016 - Aug. 2020

- Established the significance of online communities in constituting Bitcoin's original economic value by using Python and R to scrape and apply K-means clustering, structural topic modeling, and other NLP techniques to 350k+ posts from r/Bitcoin and BitcoinTalk.org
- Used computational simulations in Python to mathematically demonstrate how stable economic value can arise from social processes alone
- Led 3-phase experimental study with 1000+ MTurk subjects to evaluate connections between implicit cognition, expressed values, and behavior in economic games
- Delivered 13 invited talks across U.S. to audiences of up to 120 attendees on the sociology of cryptocurrency and the system dynamics of cognition and culture

Graduate Research Assistant, *University of Washington*, Seattle, WA

Aug. 2008 - Aug. 2016

- Employed a novel combination of NLP and qualitative research to execute the first large-scale, empirical analysis of Bitcoin and cryptocurrency in sociology
- Used agent-based modeling to show how individuals' implicit cognitive processing leads to the emergence of large scale cultural dynamics
- Served as sole teaching assistant to 40 graduate students for UW's year long sequence in advanced social statistics
- Served as social science advisor to a small team of software developers in the creation of Polis, an internationally recognized platform for hosting online democratic deliberation at scale

EDUCATION

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

2016

University of Texas, BA in Physics and Sociology

2005