Jianghui Li

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EDUCATION

Syracuse University – Master of Science (M.S.) Feb 2021 – Dec 2024
Applied Data Science & Information Systems
GPA: 3.883/4.000

Syracuse University – Bachelor of Science (B.S.) Sep 2017 – Dec 2020
Information Management & Technology
GPA: 3.763/4.000

PUBLICATIONS

Accepted

Banks, J., **Li, J (co-first author).** (2025). Wherefore Art Thou: Mapping Public Debates about Image-Generative AI. 58th Annual Hawaii International Conference on System Sciences (HICSS-58).

Submitted

Ren, B., Cheon, E., **Li, J.** Organization Matters: A Qualitative Study Of The Socio-Technical Gaps In Organizational Red-Teaming Practices For Generative AI. Manuscripts submitted to The 28th ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW 2025).

CONFERENCE PRESENTATIONS

Li, J., Introne, J. (2024, July). Towards a Predictive Model of Individual Belief Dynamics. Research presented at the 10th International Conference on Computational Social Science (IC2S2), Philadelphia, USA.

Li, J., Introne, J. (2024, June). Using the Belief Landscape Model to Predict Individual Belief Dynamics. Research presented at the ACM Collective Intelligence (CI'24), Boston, USA.

MANUSCRIPTS IN PROGRESS

Li, J., Introne, J. (in preparation). Local Conformity Predicts Individual Belief Stability.

RESEARCH EXPERIENCE

Red-Teaming for Generative AI
Syracuse University | *with Prof. EunJeong Cheon* Feb 2024 – Oct 2024

- Transcribed, Coded, and Analyzed interviews with generative AI red-teamers.
- Identified socio-technical gaps in red-teaming practices and wrote down findings.

Understanding Debates about Image-Generative AI
Syracuse University | *with Prof. Jaime Banks* Jan 2024 – Jun 2024

- Wrote R scripts to parse "aiwars" subreddit data from ZST format and collected missing data via API calls using Python.
- Developed a method to classify posts and comments into different themes in large corpuses based on the Leximancer output.
- Developed a method based on weighted difference of z scores from overall traffic and theme-specific traffic from a time window to estimate user's theme engagement level over time.
- Evaluated the impact of the external events to the subreddit discussion traffic of different themes.

Social Media Data Collection
Syracuse University | *with Prof. Yiqi Li* Oct 2023 – Dec 2023

- Collected and cleaned AI-related data from Mastodon servers via API calls using R.
- Extracted user IDs from the initial datasets to collect and manage all user relogging data (over 100GB).

Leveraging Belief Landscape Framework
Syracuse University | *with Prof. Joshua Introne* Dec 2022 – Present

- Constructed multiple “belief landscapes” using Python based on belief landscape framework using various social media data.
- Converted belief landscapes into grids with vectors, used Euler's method to trace belief trajectories and identify attractors.
- Applied Hidden Markov Models to track belief changes over time and group users by belief stability.
- Developed algorithms to identify significant events from user traffic data and conducted survival analysis to evaluate how traffic spikes influence users’ belief changes.
- Built machine learning classifiers to predict individual belief dynamics from the belief landscapes’ topological features.

WORK EXPERIENCE

IT Intern, Syracuse Poster Project (Nonprofit) August 2024 – Present

- Managing and updating the organization’s database.
- Maintaining website content, resolving display issues, fixing broken links, and integrating geospatial data to showcase the inspirations behind poems and posters.
- Enhancing web presence through SEO strategies, launching advertisements, and implementing product structured data for Google indexing. (The website hits its new search record on September 2024)

SKILLS

Scripting Languages: R, Python, SQL, Linux
Data Science: Machine Learning (clustering, classification, regression, tree-based models, deep learning with PyTorch, TensorFlow, Keras, etc.), NLP (nltk, spaCy, gensim, etc.), Data Visualization (ggplot2, matplotlib, seaborn, etc.), Data Analysis (pandas, numpy, dplyr, PySpark, etc.)
Statistics: Bayesian inference, PCA, time-series analysis, survival analysis, hypothesis testing, etc.
Web Development: HTML, CSS, JavaScript, AI-Powered Web Applications
HCI & Qualitative Methods: Design principles, prototyping, inductive and deductive coding, interviews, etc.
Natural Languages: Chinese (Native), English (Proficient), Arabic (Elementary)

HONORS AND AWARDS

Upstate Scholarship for Graduate Programs 2021-2024
Undergraduate Dean’s List for the School of Information Studies Spring 2020; Fall 2020