Andrea Wen-Yi Wang

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Research Interests

My research focuses on developing NLP tools that promote personal perspectives. Through my work, I challenge the objectivity of computational models and think about how NLP tools, including LLMs, could empower human agency, researchers in social sciences domain experts and voices of marginalized communities, especially in contexts involving subjective decision-making.

Keywords: Natural Language Processing (NLP), Computational Social Science, Large Language Models (LLMs), Feminist Theory, Multilingual NLP

Education

2022 - Now **Ph.D. in Information Science**, Cornell University
Committee: David Mimno (Chair), Allison Koenecke, Karen Levy

2017 - 2019 **M.S. in Data Science**, New York University
Mathematics and Data track

2012 - 2016 **B.A. in Finance**, National Taiwan University

Publications

2024 Automate or Assist? The Role of Computational Models in Identifying Gendered Discourse in US Capital Trial Transcripts
Andrea W Wen-Yi, Kathryn Adamson, Nathalie Greenfield, Rachel Goldberg, Sandra Babcock, David Mimno, Allison Koenecke
AAAI/ACM Conference on Artificial Intelligence, Ethics, and Society (AIES)
Best Student Paper

2023 Hyperpolyglot LLMs: Cross-Lingual Interpretability in Token Embeddings.
Andrea W Wen-Yi and David Mimno.
Empirical Methods in Natural Language Processing (EMNLP)

2021 The Evolution of Rumors on a Closed Social Networking Platform During COVID-19: Algorithm Development and Content Study.
Andrea Wang, Jo-Yu Lan, Ming-Hung Wang, Chihhao Yu.

JMIR Medical Informatics

Working paper
How Chinese are Chinese Language Models? The Puzzling Lack of Language Policy in China's LLMs
Andrea W Wen-Yi*, Unso Eun Seo Jo*, Lu Jia Lin, David Mimno

Work/Research experience

Summer 2024 **AI Researcher**
Gena Co. // Seoul, Korea
Supervisor: Eunseo (Unso) Jo
• Text-to-SQL for Samsung SDI battery subsidiary.
• Conversation tagging classification for customer support copilot.

2019 - 2022 **Data Researcher**
New York University Public Safety Lab
Supervisor: Anna Harvey
• Developed a system for daily collection of detainee records from 1,000 U.S. county jail rosters using Python, AWS, GitHub, and Airtable for the Jail Data Initiative.

2020 - 2021 **Data Researcher**
Information Operations Research Group // Taipei, Taiwan
Supervisor: Ming-Hung Wang, Chihhao Yu
• Developed an efficient classification-based clustering algorithm to study the temporal propagation patterns of false pandemic-related information on a social platform.

Posters, Talks, Presentations

July 2023 **Seasonality Visualizations of Online Text**
Andrea W Wang, Allison Koenecke, David Mimno
The International Conference for Computational Social Science (IC2S2)

July 2021 **Information operations research as a data science research**
Conference for Open Source Coders, Users and Promoters (COSCUP)

Dec 2020 **0archive: an open source archiving system and open data for Taiwan online information space.**
g0v (gov-zero) summit

Teaching Experience

Fall 2024 Graduate TA, **INFO 3300: Visual Data Analytics for the Web**, Cornell University
Fall 2023 Graduate TA, **INFO 2950: Introduction to Data Science** , Cornell University
Spring 2019 Graduate TA, **Introduction to Data Science**, New York University
Fall 2018 Graduate TA, **Probability and Statistics for Data Science**, New York University

Services

2023   EMNLP Student Volunteer
2022, 2023 Student Reviewer and Interviewer, Cornell Information Science PhD Admissions
2022, 2023 Mentor, Cornell InfoSci Student-Applicant Reading Program (SARP)