

# Andrea Wen-Yi Wang

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## Research Interests

My research interests lie at the intersection of Natural Language Processing, Data Science, and Computational Social Science. My works involve understanding the characteristics of large language models (LLMs) in two ways. First, I study the interpretability of multilingual large language models with the goal to improve the performance for low-resource languages. Second, I study both the opportunities and challenges that LLMs offer for social scientists with textual data. I have works in domains related to criminal justice, gendered studies, misinformation.

## Education

- 2022-Present    **Ph.D. in Information Science**, Cornell University  
Advisor: David Mimno  
Committee: Allison Koenecke, Karen Levy  
Minor: Sociology
- 2017-2019    **MS Data Science**, New York University  
Mathematics and Data track
- 2012-2016    **BA 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)*
- 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.

Jan 2019 - June 2022    **Data Scientist**  
New York University Public Safety Lab  
Supervisor: Anna Harvey  
• Created Python programs to collect individual-level detainee records daily from around 1,000 U.S. county jail rosters.  
• Designed operational pipeline involving Amazon Web Services, Github, and Airtable that improved the success rate by 80%.

Sep 2020 - Aug 2021    **Researcher**  
Information Operations Research Group // Taipei, Taiwan  
• Studied the temporal propagation patterns of false pandemic-related information on a social platform by developing an efficient classification-based clustering algorithm.

## 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 & Promoters (COSCUP)*

Dec 2020    **oarchive: an open source archiving system and open data for Taiwan online information space.**  
*gov (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

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