

# Menglin (Miley) Liu

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## ACADEMIC APPOINTMENTS

**Chinese University of Hong Kong, Shenzhen**  
*Assistant Professor, Computational Social Science*

Starting Fall 2025  
Shenzhen, China

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## EDUCATION

**University of California, Davis**  
PhD, Political Science  
Exchange Student, Political Science

Davis, CA  
Sept. 2019 –  
Sept. 2017 – June 2018

**Beijing Foreign Studies University**  
Bachelor of Arts in English Literature

Beijing, China  
Sept. 2015 – June 2019

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## RESEARCH INTERESTS

- Methodology: data mining, text analysis, large language models
- American Politics: state and local politics, urban politics, public policy
- Comparative Politics: housing politics and political opinion

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## RESEARCH

### Book Chapters

- **Menglin Liu** and Xu Shan. 2021. "China: Diversion, Ingratiation, and Victimization." In *Political Communication and COVID-19: Governance and Rhetoric in Times of Crisis*. Routledge.
- **Menglin Liu** and Xu Shan. Forthcoming. "Unraveling Crisis Communication: Assessing Strategies in China's COVID-19 Pandemic." In *Risk Communication and COVID-19 Governmental Communication and Management of the Pandemic*. Routledge.

### Articles

- **Menglin Liu**. "The Varied Impact of Direct Democracy on Local Housing Policies: Unraveling the Role of Socioeconomic Context." *Forthcoming at Local Government Studies*.
- **Menglin Liu** and Ang Liu. "Homeownership and Redistribution Support: Unveiling the Unique Effect Among State-Owned Enterprise Employees in China." *Revision and Resubmit at Cities*.
- **Menglin Liu** and Ang Liu. "Does Homeownership Influence Political Participation? Evidence from Survey Data in Contemporary China." *Under Review at Urban Affairs Review*.
- **Menglin Liu** and Ge Shi. "PoliPrompt: A High-Performance Cost-Effective LLM-Based Text Classification Framework for Political Science." *Under Review at Journal of Computational Social Science*

### Working Papers

- **Menglin Liu** and Jinghong Wang. "Framing Opposition: Leveraging Retrieval-Augmented Generation and Fine-Tuned LLMs to Uncover Ideological Paradoxes in Housing Policy Debates."
- Mitchell Bosley, **Menglin Liu**, and Ge Shi. "From Categories to Spectrums: LLMs for Text Scaling."
- **Menglin Liu** and Ge Shi. "Visual Language Model for Document Question Answering in Political Science."
- **Menglin Liu**. "The Fiscal Impact of Transitioning to District-Based Elections: Evidence from California."
- **Menglin Liu** and Yuyang Pu. "Blame Attribution in Authoritarian Regimes: A Survey Experiment in China." (Selected: APSA 2022)
- **Menglin Liu** and Ginger Alonso. "District Elections and Substantive Representation in Local Government: A Closer Look at Environmental Justice."

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## SOFTWARE PACKAGE

- **PoliPrompt 2.0** (PyPI — GitHub)

PoliPrompt 2.0 is a Python package designed to make large language models (LLMs) a reliable and accessible tool for political text classification. Building on the original PoliPrompt framework, version 2.0 introduces **hard example mining**, **uncertainty-aware classification**, and a **human-in-the-loop** interface to handle ambiguous or edge cases during annotation. It is tailored for political and social scientists seeking high accuracy with low annotation cost—even in low-resource or noisy data environments.

Key features include:

- **Automatic Prompt Optimization**: Learns and refines task instructions from labeled data to generate effective few-shot prompts.

- **Dynamic Exemplar Selection:** Retrieves contextually relevant examples in real time using maximal marginal relevance.
- **Uncertainty-Aware Annotation:** Aggregates multiple predictions to flag cases with low confidence or model disagreement for human review.
- **Human-in-the-Loop:** Seamlessly integrates researcher oversight into the LLM pipeline for ambiguous or novel content.

## TEACHING EXPERIENCE

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- Undergraduate Courses
  - **Instructor**
    - \* Scientific Study of Politics, University of California, Davis:
      - 2024 Summer Session One
      - 2022 Spring (Section Instructor)
      - 2021 Summer Session One (Section Instructor)
      - 2021 Spring (Section Instructor)
    - \* Group Politics, University of California, Davis:
      - 2024 Spring
    - \* Introduction to American Politics, University of California, Davis:
      - 2023 Winter
      - 2023 Summer Session One
      - 2022 Summer Session One
  - **Guest Lecturer**
    - \* Contemporary U.S. Politics, Siena College, 2023 Spring
  - **Teaching Assistant**
    - \* American Political Development, University of California, Davis:
      - 2021 Winter (TA for Dr. Joel Landis)
    - \* Introduction to American Politics, University of California, Davis:
      - 2024 Fall (TA for Professor Scott MacKenzie)
    - \* National Security Policy, University of California, Davis:
      - 2022 Winter (TA for Dr. Sarah Prince)
    - \* Political Psychology, University of California, Davis:
      - 2024 Winter (TA for Professor Cheryl Boudreau)
      - 2023 Spring (TA for Professor Cheryl Boudreau)
    - \* Public Sector Politics, University of California, Davis:
      - 2021 Fall (TA for Professor Adrienne Hosek)
      - 2020 Fall (TA for Professor Adrienne Hosek)
- Graduate Courses
  - **Instructor**
    - \* Summer Session on Nation Governance and Public Policy: Introduction to American Local Politics and Public Policy, Renmin University, China, 2021 Summer

## CONFERENCES

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- Chinese Community of Political Science and International Studies July 2020
- Midwest Political Science Association Annual Meeting April 2021
- THU-PKU-RUC Political Science Research Workshop December 2021
- American Causal Inference Conference June 2022
- American Political Science Association Annual Meeting September 2022
- American Political Science Association Annual Meeting September 2023
- Annual Meeting of Society for Political Methodology July 2024
- American Political Science Association Annual Meeting September 2024
- Annual Meeting of Society for Political Methodology Asia scheduled January 2025
- Southern Political Science Association Conference (CWC: Generative Language Models in Political Science Research) Scheduled January 2025

## FELLOWSHIPS

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- Provost's Fellowships in the Arts, Humanities and Social Sciences 2019-2020, \$58,302.00
- Living Expense Fellowship, 2024 Summer, \$5,000

## PROFESSIONAL EXPERIENCE

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- Committee of 100, June 2023 - September 2023, Data & Policy Analyst

## REVIEWER SERVICE

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- *American Journal of Computer Science and Technology*
- *International Communication Association*

## PROFESSIONAL MEMBERSHIPS

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- American Political Science Association
- Midwest Political Science Association
- Western Political Science Association
- Southern Political Science Association
- The Society for Political Methodology
- International Communication Association

## TECHNICAL SKILLS

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- **Programming Languages:** Python, R, Stata
- **Machine Learning:** scikit-learn, PyTorch, NLP
- **Data Analysis:** Pandas, NumPy, Matplotlib, ggplot2, Tableau
- **Languages:** Mandarin (native), English (fluent), German (intermediate)

## REFERENCES

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- Scott MacKenzie, Professor, University of California, Davis, samackenzie@ucdavis.edu
- Lauren Peritz, Associate Professor, University of California, Davis, lperitz@ucdavis.edu
- Christopher Hare, Associate Professor, University of California, Davis, cdhare@ucdavis.edu