Zhanyang Liu
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EDUCATION

University of Michigan, School of Information, Ann Arbor, MI   *Aug.2023-(Expected)April. 2025*
Master of Science in Information (MSI) focus in Data Science and Big Data Analytics
University of Michigan, Rackham Graduate School, Ann Arbor, MI   *Aug-2022- (Expected)April. 2025*
Master of Arts in International and Regional Studies, focus in MENA Region
Beijing Foreign Studies University, Beijing, China
Bachelor of Arts in Modern Hebrew.   *September. 2018-July. 2022*
- Study Aboard: Hebrew University of Jerusalem (October. 2020-July. 2021)

SKILLS

Technical Skills:

- **Programming Languages:** Python, R, LaTeX

- **Statistical Analysis:** Multiple regression, time series analysis, hypothesis testing, causal inference

- **Machine Learning:** *Supervised Learning*: XGBoost, LightGBM, Random Forest; *Unsupervised Learning*: K-means, hierarchical clustering, PCA, t-SNE; *Natural Language Processing:* NLTK, spaCy, Transformers, topic modeling

- **Data Visualization:** Matplotlib, Seaborn, Plotly, ggplot2

- **Data Engineering:** SQL, data cleaning, feature engineering, ETL pipeline

Languages Skills:

- Chinese (Native)

- English (Proficient)

- Hebrew (Proficient)

- Modern Standard Arabic (Fluent)

- Levantine Arabic (Intermediate)

PROFESSIONAL EXPERIENCE

University of Michigan   **Ann Arbor, MI**
Graduate Student Instructor in Anthropology department   *Aug. 2023-Dec.2023*
- Collaborated with faculty to enhance curriculum and address student needs, contributing to an enriched learning experience.
- Conducted and facilitated two discussion sessions for approximately 60 students, emphasizing data-driven problem-solving and analysis approaches fostering a collaborative learning environment.
- Designed and prepared comprehensive lecture materials, utilizing Microsoft, ensuring the effective delivery of course content.
- Offered personalized writing support to students, integrating data-driven insights for enhanced communication skills development.

The Jewish-Arab Center   **Haifa, Israel**
Visiting Researcher   *May. 2023-Aug.2023*
- Conducted extensive ethnographic research examining Arab participation in the 2023 judicial overhaul protests through 50+ interviews with local organizers, politicians, and community members
- Developed mixed-methods research design combining participant observation, semi-structured interviews, and protest discourse analysis
- Co-authored policy report for the Institute for National Security Studies (INSS) analyzing factors affecting Arab citizens' participation in nationwide demonstrations
- Investigated protest dynamics in mixed cities, examining how residential patterns and workplace integration influence political mobilization
- Leveraged Arabic and Hebrew language skills to conduct interviews and analyze protest materials in their original languages

The Institute for National Security Studies   **Tel-Aviv, Israel**
Research Analyst   *May. 2023-Aug.2023*
- Chaired and co-authored the INSS position paper "*What Deters the Arab Population from the Protests? Arab Citizens of Israel on the Judicial Overhaul Protests*".
- Forged the end-to-end data analysis process involving data collection, security, analysis, and interpretation. Utilized tools such as R for robust research reports.
- Negotiated in-depth interviews with 20 experts and stakeholders, employing data-driven interview techniques to extract diverse perspectives and valuable insights for a comprehensive analysis.
- Leveraged interviews and extensive data-driven research to add depth and complexity to the position paper, resulting in a more nuanced and high-quality analysis and recommendations.

Middle Eastern Studies Newsletter   **Shanghai, China**
Contributing Editor   *Jan. 2023 – Sep.2023*
- Amplified comprehensive weekly news reports on diverse topics in the MENA region, employing data analysis to provide well-informed insights into economic development, political events, and social issues.
- Collaborated with scholars to co-author a chapter titled "Geographical Location of Morocco," incorporating data-driven

research to enhance the depth and accuracy of the content.

Carnegie-Tsinghua Center for Global Policy   **Beijing, China**
Communications Intern   *June. 2021-August. 2021*
- Analyzed user characteristics and preferences on major social media platforms (Twitter, Facebook, and Weibo), utilizing data-driven insights to inform policy analysis posts.
- Curated content from various sources to align the social media schedule, using data-driven strategies to promote timely and relevant content.
- Restructured media pieces to promote YAP, employing data-driven design principles to optimize engagement and effectiveness.

AWARDS &FELLOWSHIPS

- MIRS Fellowship for the 2023-2024 academic year $10,000
- Rackham International Research Awards (RIRA) $4,000
- MIRS International Travel Grant $1,000
- The Jean and Samuel Frankel Center for Judaic Studies Financial Fellowship $4,169
- MIRS Fellowship for the 2022-2023 academic year $8,000

PUBLICATIONS

The Country Geography of Morocco   **Beijing, China**
Co-Author   *Expected Publication Date: Dec. 2024*
- Collaborated with scholars to write a chapter titled "Geographical Location of Morocco."

INSS Insight   **Tel-Aviv, Israel**
Co-Author
- What Deters the Arab Population from the Protests? Arab Citizens of Israel on the Judicial Overhaul Protests