JULIA HSIN-PING HSU

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My professional goal is to promote social good and inclusive information access through innovative data science and AI-assisted research.

EDUCATION

George Mason University	VA, USA
Ph.D. in Information Technology	2020–Present
George Mason University	VA, USA
M.S. in Computer Science	2018–2020
University of Taipei	Taipei, Taiwan
B.S. in Computer Science	2013–2017
Southwestern Oklahoma State University	OK, USA
Exchange Program in Computer Science with Study Abroad Scholarship	2015–2016

PROFESSIONAL EXPERIENCE

George Mason University — VA, USA
Graduate Research Assistant — Nov. 2019–Present

- ML/ AI for social good
- Computational community data analytics
- ML algorithm implementation
- Map-based visualization system development

Virginia Academy of Science, Engineering, and Medicine — VA, USA
COVES Fellow at the State Council of Higher Education for Virginia — May 2024–Aug. 2024

- Ethics-based analysis of AI use in higher education

MYGUARD Company Limited — Taoyuan, Taiwan
Software Engineer — June 2017 –July 2018

- Developed and improved iOS and Android Apps for international medical foundation and increased 16% of downloads in one year
- Used Python to analyze and generate usage report of Apps to help the medical foundation spread medical knowledge

Dept. of Computer Science, University of Taipei — Taipei, Taiwan
Teaching Assistant — Spring 2017

- Provided feedback and instructions to 50 students on Java and Python programming assignments

Oct 2025

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PUBLICATIONS

[1] Hsu, J. H.-P., & Lee, M. (2025). From open-ended text to taxonomy: An llm-based framework for information sources for disability services. *Proceedings of the Association for Information Science and Technology (ASIST '25).*

[2] Hsu, J. H.-P., Mahabir, R., Gonzales, V., Gkountouna, O., Hilal, A., & Lee, M. (2025). Predicting the success of local gatherings: A comparison of organizer- and participant-side success in meetup. *Cities: The International Journal of Urban Policy and Planning, Elsevier.*

[3] Kim, J., Hsu, J. H.-P., Sohn, G., Lee, G. M., & Lee, M. (2025). Leveling socioeconomic disparities: The role of service availability in school dropout rates. *Special Issue on Emerging Computational Approaches for Social Work Research and Practice.*

[4] Lee, M., & Hsu, J. H.-P. (2024). An Evaluation of GPT-4V for Transcribing the Urban Renewal Hand-Written Collection. *Digital Humanities (DH '24).*

[5] Hsu, J. H.-P., Shin, H., Park, N., & Lee, M. (2023). Two-sided Cultural Niches: Topic Overlap, Geospatial Correlation, and Local Group Activities on Event-based Social Networks. *Proceedings of the 11th International Conference on Communities and Technologies*, 54–63. https://doi.org/10.1145/3593743.3593758

[6] Hsu, J. H.-P., Wang, J., & Lee, M. (2022). Towards an Expectation-Oriented Model of Public Service Quality: A Preliminary Study of NYC 311. *International Conference on Social Informatics*, 447–458. https://doi.org/10.1007/978-3-031-19097-1_31

AWARDS AND HONORS

- 3rd-Place Prize in the poster session at the Converge AI event organized by the CEC's AI-in-Gov Council   2025
- 3rd-Place Prize at the GMU College of Engineering and Computing Innovation Week Poster Competition   2024
- GRA award from GMU's Center for Advancing Human-Machine Partnership (CAHMP)   2023
- GMU University International Travel Grant from Associate Provost for Graduate Education   2022
- Winner of Wells Fargo Campus Analytics Challenge – NLP and Topic Modeling   2020
- Outstanding Achievement Award by Taipei City Council for 4 academic years   2013–2017
- Winner of the University of Taipei Social Network Design Competition   2017
- First Oklahoma High Performance Computing Competition Honorable Mention   2015
- Oklahoma Supercomputing Symposium Participant   2015
- University of Taipei High Scholar Achievement Award for 4 consecutive years   2013–2017
- Winner of the University of Taipei Software Creative Design Competition   2013

PARTICIPATION IN FUNDED PROJECTS

Mapping Information Ecology: Understanding the Fragmentation of Disability Service Information
Funded by Virginia Board for People with Disabilities & U.S. Department of Health and Human Services   2023–Present

- Co-author of the grant proposal
- Participate as a graduate research assistant
- Design and implement computational network analysis on information providers

Exploring How Convergence Methods Foster Shared Accountability to Reveal, Map, and Mitigate the Sources and Dynamics of Bias across Social Service Provisioning Systems
Funded by NSF DASS Program   2023–Present

- Participate as a graduate research assistant

AI for AI: Toward Community-level Human-AI Collaborations in Local Meetups
Funded by 4VA @Mason   2021–2022

- Participated as a graduate research assistant
- Implemented Machine Learning algorithms

Making Information Deserts Visible: Computational Models, Disparities in Civic Technology Use,
and Urban Decision Making
Funded by NSF HCC Program   2020–2022

- Participated as a graduate research assistant
- Led the web visualization system development team

Professional Service

- **Student Volunteer**, RecSys 2022   2022
- **Reviewer**, SocInfo 2022   2022

Technical Skills

- **Programming Languages/ Databases:** Python, C, C++, Java, SQL, MongoDB, Spark, MATLAB, HTML, CSS, JavaScript, VHDL, Assembly Language
- **Frameworks/ Other:** Django, Angular, Jenkins, Amazon Web Services, RESTful Web Service (Jersey), React, Rancher, Docker, Android Studio, Google Cloud, Git