

# Julia Hsin-Ping Hsu

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**Computational Social Sciences; Community Informatics; Information Access; AI for Social Good; Machine Learning; Social Media Data Analytics; Urban Computing; Civic Technology; Health Informatics**

## Education

2020–26	<b>Ph.D.</b> , Information Technology, George Mason University Dissertation Committee: Dr. Myeong Lee (chair), Dr. Hemant Purohit, Dr. Vivian Genaro Motti, Dr. Jonathan Auerbach	Fairfax, VA, USA
2018–20	<b>M.S.</b> , Computer Science, George Mason University	Fairfax, VA, USA
2013–17	<b>B.S.</b> , Computer Science, University of Taipei	Taipei, Taiwan

## Honors & Awards

2026	Travel Fund from iConference
2026	Dissertation Completion Grant from GMU's Office of the Provost (Spring 2026)
2025	Doctoral Colloquium, ASIST'25
2025	3rd-Place Prize in the Poster Session at the Converge AI Event Organized by the GMU's AI-in-Gov Council
2025	GMU University Travel Grant from Office of the Provost
2024	Conference Bursary Award (with Travel Fund) from Digital Humanities (DH)
2024	3rd-Place Prize at the GMU College of Engineering and Computing Innovation Week Poster Competition
2023	GRA Award from GMU's Center for Advancing Human-Machine Partnership
2022	GMU International Travel Grant from Associate Provost for Graduate Education
2020	Winner of Wells Fargo Campus Analytics Challenge – NLP and Topic Modeling
2013–17	Outstanding Achievement Award by Taipei City Council for 4 Academic Years
2017	Winner of the University of Taipei Social Network Design Competition
2013–17	University of Taipei High Scholar Achievement Award for 4 Consecutive Years
2013	Winner of the University of Taipei Software Creative Design Competition

## Publications

### Journal Articles

- J2. **Hsu, J. H.-P.**, Mahabir, R., Gonzales, V., Gkountouna, O., Hilal, A. & Lee, M. Predicting the success of local gatherings: A comparison of organizer- and participant-side success in Meetup. *Cities* **169**, 106530. issn: 0264-2751. <https://www.sciencedirect.com/science/article/pii/S0264275125008339> (2026).  
IF: 6.0; SJR: Q1 in Urban Studies/ Development/ Sociology and Political Science.

- J1. Kim, J., **Hsu, J. H.-P.**, Sohn, G., Lee, G. M. & Lee, M. Leveling Socioeconomic Disparities: The Role of Service Availability in School Dropout Rates. *Research on Social Work Practice*, 10497315251377009. <https://doi.org/10.1177/10497315251377009> (2025).  
IF: 2.24; SJR: Q1 in Sociology and Political Science/ Social Sciences.

### Peer-reviewed Conference Proceedings

- C6. Prazak, I., Padovani, L., Lim, Y., **Hsu, J. H.-P.** & Lee, M. Disability Misinformation on Facebook: A Comparison of LLM-based Fact-Checking Tools in *iConference 2026 Proceedings* (2026).
- C5. **Hsu, J. H.-P.** & Lee, M. From Open-Ended Text to Taxonomy: An LLM-Based Framework for Information Sources for Disability Services in *Proceedings of the Association for Information Science and Technology* **62** (2025), 915–919. <https://asistdl.onlinelibrary.wiley.com/doi/abs/10.1002/pra2.1313>.
- C3. Lee, M. & **Hsu, J. H.-P.** An Evaluation of GPT-4V for Transcribing the Urban Renewal Hand-Written Collection in *Digital Humanities (DH '24)* (2024). **Bursary Award**.
- C2. **Hsu, J. H.-P.**, Shin, H., Park, N. & Lee, M. Two-sided Cultural Niches: Topic Overlap, Geospatial Correlation, and Local Group Activities on Event-based Social Networks in *Proceedings of the 11th International Conference on Communities and Technologies* (2023), 54–63. <https://doi.org/10.1145/3593743.3593758>.
- C1. **Hsu, J. H.-P.**, Wang, J. & Lee, M. Towards an Expectation-Oriented Model of Public Service Quality: A Preliminary Study of NYC 311 in *International Conference on Social Informatics* (2022), 447–458. [https://doi.org/10.1007/978-3-031-19097-1\\_31](https://doi.org/10.1007/978-3-031-19097-1_31).

### Theses

- D1. **Hsu, J. H.-P.** Measuring the Fragmentation of Disability Service Information: Ecological Dynamics of Information Access. *George Mason University Press (forthcoming)*.

### Non-refereed Publications and Reports

- R2. Lee, M., Abubakr, L., Shrivastava, T., **Hsu, J. H.-P.**, Whitman, S. A. & Kim, P. 2024 Assessment of Virginia's Information Ecology of the Disability Services System (2024). <https://vbpd.virginia.gov/wp-content/uploads/2024/08/2024-Assessment-of-Information-Ecology.pdf>.
- R1. Bui, L., Gerson, S., Lincicum, M., Samson, L., Zhang, Z., **Hsu, J. H.-P.** & Lee, M. Do YouTubers Promote Bullshitting using ChatGPT? Exploring the Use of Large-Language Models in YouTube Videos and Their Risk Landscapes. *Journal of Student-Scientists' Research* **5** (2023).

### Presentations

- P7. **Hsu, J. H.-P.**, Burcu, T., Lybarger, K. & Lee, M. An AI-Based Framework for Understanding Occupational Injuries across Virginia. Virginia Academy of Science, Engineering and Medicine (**VASEM**) **Summit on Artificial Intelligence**. Alexandria, VA, USA. Oct. 2025.
- P6. **Hsu, J. H.-P.**, Burcu, T., Lybarger, K. & Lee, M. An AI-Based Framework for Understanding Occupational Injuries across Virginia. **GMU AI-in-Gov Council**. Arlington, VA, USA. Sept. 2025. **3rd-Place Prize in the Poster Session**.

- P5. **Hsu, J. H.-P.** *Mapping the Information Ecology for People with Disabilities: A Taxonomy of Information Sources using Large Language Model*. **George Mason University Information Sciences and Technology PhD Symposium**. Fairfax, VA, USA. Apr. 2025.
- P4. Lee, M., **Hsu, J. H.-P.**, Plaza, R., Gonzales, V., Zhang, Z. & Mahabir, R. *Collaborating to Success: Analyzing the Collaboration Networks of Gaming YouTubers*. International Conference on Computational Social Science (**IC2S2**). Philadelphia, PA, USA. July 2024.
- P3. Lee, M., **Hsu, J. H.-P.**, Plaza, R., Zhang, Z. & Mahabir, R. *How Do Gaming YouTubers' Collaboration Shape Their Success?* International School and Conference on Network Science (**NetSci**). Quebec City, Canada. June 2024.
- P2. **Hsu, J. H.-P.**, Plaza, R., Zhang, Z., Mahabir, R. & Lee, M. *How Do Gaming YouTubers' Collaboration Shape Their Success? Implications for Embeddedness in Streamers' Collaboration Network*. GMU College of Engineering and Computing Innovation Week (**I-Week**). Fairfax, VA. Feb. 2024. **3rd-Place Prize in the Grad-track Poster Session**.
- P1. **Hsu, J. H.-P.** & Lee, M. *Towards an Expectation-Oriented Model of Public Service Quality: A Preliminary Study of NYC 311* GMU College of Engineering and Computing Innovation Week (**I-Week**). Fairfax, VA. Feb. 2023.

## Software

- **Boston 311 Information Deserts:** A map-based visualization platform that demonstrates how the disparities in 311 reports manifest across the City of Boston. A result from the NSF CHS grant #1816763. <https://infodeserts.org/>

## Teaching & Mentoring Experience

- 2026      **Guest Lecturer, Introduction to Research in Applied Information Technology (AIT 602)**, GMU
- 2025-26      **Research Mentor**, SAFETI Project (in collaboration with Virginia DOLI), Community Informatics Lab, GMU
- Mentored PhD, Master's, and undergraduate research fellows on machine learning, computational modeling, and data analysis
  - Mentee: Gie Myung Lee, Utkarsh Desai and Tugce Gundogdu
- 2022-23      **Aspiring Scientist Summer Internship Program (ASSIP) Mentor**, GMU
- Mentored ASSIP fellows by providing research guidance, technical support, and project feedback
  - Supported ASSIP fellows in developing, writing, and publishing academic papers [C6]
  - Mentee: Ian Prazak, Yool Lim, Leah Padovani, Leyat Samson, Linh Bui, Stephen Gerson and Megan Lincicum
- 2021-22      **Research Mentor**, AI for AI Project, Community Informatics Lab, GMU
- Mentored Master's and undergraduate fellows on feature engineering and statistical analysis of large-scale Meetup data
  - Mentee: Ishana Shinde and Victoria Gonzales

- 2020-22     **Research Mentor and Technical Lead**, Information Deserts and Visualization of Civic Technology Use in DMV Projects, Community Informatics Lab, GMU
- Mentored Master's and undergraduate research fellows in developing a unified database integrating 311 datasets across regions; guided statistical analysis and led the visualization system development team
  - Mentee: Tsai-Chin Yu, Samriddhi Dashora and Joel Adeniji
- 2017        **Teaching Assistant, Python Programming**, University of Taipei
- Prepared teaching materials for Python classes and responded to student questions
- 2017        **Teaching Assistant, Java Programming**, University of Taipei
- Led lab sessions providing feedback and instruction to 50 students on programming assignments

## Participation in Funded Projects

- 2025-26     **SAFETI: Strategic Analysis for Fine-granular Injury and Fatality PrEvention Insight**  
*Funded by the Virginia Department of Labor and Industry (DOLI)*  
 PI: Dr. Myeong Lee & Dr. Kevin Laybarger (GMU)
- Mentored graduate and undergraduate researchers on data analysis and modeling
  - Designed and implemented deep learning models for injury and fatality prediction
- 2023-24     **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*  
 PI: Dr. Myeong Lee (GMU) & Co-PI: Dr. Kathleen Pine (ASU)
- Co-authored the grant proposal
  - Developed an LLM-assisted framework to analyze large-scale survey data on disability information sources
  - Implemented computational network analysis to map information fragmentation
- 2023-25     **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 Award #2217706*  
 PI: Dr. Margaret Hinrichs (ASU) & Co-PIs: Dr. Erik Johnston, Dr. Kathleen Pine, Dr. Myeong Lee (GMU)
- Contributed as a graduate research assistant to data analysis
- 2021-22     **AI for AI: Toward Community-level Human-AI Collaborations in Local Meetups**  
*Funded by 4VA @Mason*  
 PI: Dr. Myeong Lee (GMU) & Co-PIs: Dr. Ron Mahabir, Dr. Olga Gkountouna, Dr. Amr Hilal (VTech)

- Conducted data analysis and implemented machine learning models to examine local group gathering dynamics
- 2021      **A Visualization Tool and Assessment Framework for Civic Technology Use in the DMV Area: The Case of 311 Systems During the COVID-19 Outbreak**  
*Funded by NSF CIVIC Innovation Challenge Stage 1 Award #2043900*  
 PI: Dr. Myeong Lee (GMU) & Co-PI: Dr. Susan Winter (UMD)
- Collected data and integrated 311 datasets across the DMV region
  - Analyzed resident reporting behaviors during COVID-19 pandemic
- 2020-22      **Making Information Deserts Visible: Computational Models, Disparities in Civic Technology Use, and Urban Decision Making**  
*Funded by NSF HCC Program Award #1816763*  
 PI: Dr. Susan Winter (UMD) & Project Lead: Dr. Myeong Lee (GMU)
- Conducted data analysis on residents reporting behaviors
  - Led the web visualization system development team

## Workshops, Research Programs & Institutes

- 2025      Participant in *Mapping Research and Practices on AI in the Public Sector workshop. ASIST'25*
- 2025      Alumni, *Consortium for the Science of Sociotechnical Systems (CSST)*
- 2024      Invited participant in *NSF Designing Accountable Software Systems (DASS) Workshop*

## Professional Experience

- 2019-26      **Graduate Research Assistant**, Community Informatics Lab, George Mason University
- Developed computational algorithms for large-scale data processing, modeling, and pattern discovery
  - Conducted interdisciplinary research and collaborated with government and community stakeholders
  - Performed comprehensive literature reviews and contributed to research design and analytical frameworks
  - Contributed to grant proposal writing, including background research, methodological descriptions and preliminary analyses
  - Built interactive web-based visualization systems to visualize research findings
- Summer 2024      **The Commonwealth of Virginia Engineering and Science (COVES) Policy Fellow**, Virginia Academy of Science, Engineering, and Medicine (VASEM)
- Worked with the State Council of Higher Education for Virginia
  - Ethics-based analysis of AI use in higher education
  - Developed policy recommendations for applying GenAI to support students with disabilities
- 2027-18      **Software Engineer**, MYGUARD Company Limited, Taiwan
- Feb 2026

- Developed and improved iOS and Android Apps for an 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

## Scholarly and Professional Services

2022          Student Volunteer, RecSys 2022  
 2022          Reviewer, SocInfo 2022

## Memberships

2023-          Member, Association for Information Science and Technology (ASIS&T)  
 Present

2022          Member, ACM RecSys

## Technical Skills

**Programming Languages/ Databases:** Python, C, C++, Java, MATLAB, HTML, CSS, JavaScript, SQL, MongoDB, Spark

**Frameworks/ Other:** Amazon Web Services, Google Cloud Platform, Azure, Django, Angular, Jenkins, RESTful Web Service (Jersey), React, Rancher, Docker, Android Studio, Git

## Languages

Mandarin, English