

JULIA HSIN-PING HSU

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EDUCATION

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

EXPERIENCE

George Mason University Graduate Research Assistant	VA, USA Nov. 2019–Present
<ul style="list-style-type: none">– ML/ AI for social good– ML algorithm implementation– Computational community data analytics– Map-based visualization system development	
Dept. of Computer Science, University of Taipei Teaching Assistant	Taipei, Taiwan Spring 2017
<ul style="list-style-type: none">– Provided feedback and instructions to 50 students on Java and Python programming assignments	

RESEARCH PROJECT EXPERIENCE

- Mapping Information Ecology: Understanding the Fragmentation of Disability Service Information
 - Co-author of the grant proposal
 - Participate as a graduate research assistant
- Exploring How Convergence Methods Foster Shared Accountability to Reveal, Map, and Mitigate the Sources and Dynamics of Bias across Social Service Provisioning Systems
 - Participate as a graduate research assistant
- Making Information Deserts Visible: Computational Models, Disparities in Civic Technology Use, and Urban Decision Making
 - Participated as a graduate research assistant
 - Led the web visualization system development team
- AI for AI: Toward Community-level Human-AI Collaborations in Local Meetups
 - Participated as a graduate research assistant

- Benchmarking Local Event Data Disambiguation: Data Fragmentation across Event-based Social Network
 - Participated as a graduate research assistant

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

AWARDS AND HONORS

- 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
- Social Network Design Competition Award 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

PROFESSIONAL SERVICE

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

PUBLICATIONS

- [1] 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. *International Conference on Communities and Technologies*.
- [2] Hsu, J. H.-P., Wang, J., & Lee, M. (2022). Towards an expectation-oriented model of public service quality: A preliminary study of nyc 311. *Social Informatics: 13th International Conference, SocInfo 2022, Glasgow, UK, October 19–21, 2022, Proceedings*, 447–458. https://doi.org/10.1007/978-3-031-19097-1_31

INDUSTRY EXPERIENCE

MYGUARD Company Limited
Software Engineer

Taoyuan, Taiwan
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

EXTRACURRICULAR ACTIVITIES

- Southwestern International Student Association
2015–2016
Delegate from Taiwan
- Computer Club 2015–2016
C programming tutor for undergraduate students
- Student Association of Computer Science 2014–2015
Event General Coordinator

LANGUAGES

- **Mandarin Chinese:** Native
- **English:** Professional working proficiency