JIAYI WU

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Google Scholar ⋄ Github ⋄ LinkedIn

EDUCATION

Brown University *Sept 2024 - May 2028 (expected)*
B.Sc. Mathematics-Computer Science, Urban Studies
GPA: 4.0/4.0
Related courses: *Critical Data and Machine Learning Studies, Linear Algebra with Theory, Program Design with Data Structures and Algorithms, Honors Statistical Inference I, Abstract Algebra, Urban Life in the Global South*

Shanghai Qibao Dwight High School *Sept 2021 - June 2024*
International Baccalaureate Diploma Programme (IBDP)
GPA: 4.0/4.0
Related courses: *Mathematics Analysis and Approaches HL, Computer Science HL, History HL, Theory of Knowledge, Global Politics-History Extended Essay*

RESEARCH INTERESTS

1. Symbolic systems, multi-agent systems for language agents

2. Complex systems and sociotechnical infrastructure/governance (for urban landscapes and workplace algorithmic management in particular)

3. Accessiblity, distributivity, and participation under contexts of fairness, transparency, interpretability, and auditing

ACADEMIC EXPERIENCE

Atypical Combination in Computational Sciences Feb 2025 - Present
Supervisors: Prof. Huilian Sophie Qiu Northwestern University

Affiliation: Northwestern Institute on Complex Systems (NICO), Uzzi Lab

Collective Data Stewardship and Governance Feb 2025 - Present
Supervisors: Prof. Vera Khovanskaya University of Toronto

Affiliation: Faculty of Information

AI Fairness Research, Sociall Responsible Computing Handbook Dec 2024 - Present
Supervisors: Prof. Suresh Venkatasubramanian and Prof. Julia Netter Brown University

Affiliation: Brown CS, Center for Technological Responsibility (CNTR)

Critical Auditing of Food-Delivery Algorithmic Management [1] Nov 2024 - Present
Supervisors: Prof. Harini Suresh Brown University

Affiliation: Brown CS, the Data in Society Collective (DISCO Lab)

Digital Ethnography of Lower-Class Chinese Women [2] Feb 2023 - July 2023
Supervisors: Prof. Kevin Marinelli The University of North Carolina at Chapel Hill

Affiliation: Program for Public Discourse, Pioneer Academics

PROFESSIONAL EXPERIENCE

Data Engineer Internship   Jan 2025 - Present
Supervisors: Delaney Dill, Nelson Ngouenet   GLBL Foundation
Affiliation: P1.UVWP The Water Purifier

Data Science Internship   July 2024 - Sept 2024
Supervisors: Angelos Chronis   Infrared City

PROJECT EXPERIENCE

Digital Equity Team Associate   Feb 2025 - Present
Affiliation: Digital Equity Initiative   Brown Initiative for Policy

Ignite Fellow   Sept 2025 - Mar 2025
Affiliation: Ignite Fellowship   AI4ALL

Data Associate [3]   Sept 2025 - Present
Affiliation: Data Board   Brown Political Review

PUBLICATIONS

[1] **Jiayi Wu** and H. Suresh, "Toward labor-inclusive food delivery algorithmic management: Cross-platforms case studies, computational approaches, and regulatory alternatives," Submitting to the 28th ACM Conference on Computer-Supported Cooperative Work Social Computing (CSCW).

[2] **Jiayi Wu**, "Shout through the air: A digital ethnography on the rhetoric of china's lower-class "toilet girl" as empowerment and subversion," in *Pioneer Journal*, 2023.

[3] **Jiayi Wu**, "Urban pivots, political margins: The scramble for urban village in the early 2000s' southern china," *Brown Political Review*, 2025.

ACHIEVEMENTS

Chairman Scholarship (5%), Shanghai Qibao Dwight High School	*Spring 2024*
Academic Excellence Scholarship First Place (1%), Shanghai Qibao Dwight High School	*Spring 2023*
Meritourious Award (15%), COMAP's High School Mathematical Contest in Modeling	*Spring 2023*
Global First Place Award (5%), China Thinks Big Competition(CTB)	*Fall 2022*

SKILLS/MISCELLANEOUS

Programming Languages	Java, Python, JavaScript, HTML/CSS, SQL/MySQL, MATLAB, XML, ReasonML, Racket, C/C++, Processing
Programming Tools	PyTorch, Tensorflow, Sklearn, Pandas, Numpy, Vite, Vue.js, D3.js, Plotly, Android Studio, Microsoft Excel, Git/GitHub, Linux
Miscellaneous	Zine/Collage-Making, Reading (Historical/Science Fiction)