Curriculum Vitae

Xingyun Wu

Ph.D. in Sociology, Krieger School of Arts and Sciences, Johns Hopkins University

Areas of Specialization:

Social Inequality, Work and Family, Social Demography, Population Health**,**

Quantitative and Computational Methodology

Contact: xywu_soc@outlook.com

Personal website (up-to-date CV, research, and more): https://xywu-soc.github.io/xywu/

Work

The University of Hong Kong, the Faculty of Social Sciences	Hong Kong
Post-doctoral Fellow, Research Hub of Population Studies	2025

Education

Johns Hopkins University	Baltimore, Maryland
Ph.D. in Sociology	2025

Dissertation title: "Socially Structured Activity-Time Allocation: Work, Family, and Person Spheres as an Integrated System in Daily Lives"

Committee: Lingxin Hao, Feinian Chen, Allison Pugh, Arik V. Marcell, Ciprian M. Crainiceanu

University of Chicago	Chicago, Illinois
M.A. in Computational Social Science	2018
Hong Kong University of Science and Technology	Hong Kong
M.Sc. in Global China Studies	2014
Sun Yat-sen University	Guangzhou, Guangdong
M.A. in Sociology	2016
B.A. in Sociology	2014

Publication

Arkande, Morayo, Kathryn Van Eck, **Xingyun Wu**, Eliana M. Perrin, Lingxin Hao, Pamela Matson, Elizabeth Ozer, and Arik V. Marcell. "Well-Visit Attendance from Mid-Adolescence to Young Adulthood: Who Remains Engaged?" Journal of Adolescent Health (Accepted, October 2025).

Huang, Wenxuan, Lingxin Hao, **Xingyun Wu**, Xiao Yu, Erjia Cui, and Andrew Leroux. 2023. "Gender Difference in 'Second-Shift' Physical Activity: New Insights from Analyzing Accelerometry Data in a Nationally Representative Sample." SSM - Population Health 24 (December):101536. https://doi.org/10.1016/j.ssmph.2023.101536.

Liang, Yucheng and **Xingyun Wu**. 2016. "Educational Segregation and Aspiration with Household Registration System: Analysis using CEPS 2014." Journal of Social Development.

Manuscript Under Review or In Progress

Wu, Xingyun. "Spillover of Structural Constraints: Gender Structure in the Work, Family, and Person Spheres." [Completed manuscript, in revision for journal submission]

Wu, Xingyun. "The Division of Household Labor: Couple Analysis on Observed-Synthetic Data with Machine Learning." [Completed manuscript, in revision for journal submission]

Wu, Xingyun. "Work, Family, and Personal Sphere as an Integrated System: Structural Constraints on Activity-Time Allocation Across Spheres." [Completed manuscript]

Marcell, Arik V., **Xingyun Wu**, Morayo Arkande, Pam Matson, Elizabeth Ozer, and Kathryn Van Eck. "Substance-Specific Preventive Care Receipt by Substance Use Behaviors from Mid-Adolescence to Young Adulthood." [Under review]

Van Eck, Kathryn, Morayo Akande, **Xingyun Wu**, Eliana M. Perrin, Lingxin Hao, Pamela Matson, Elizabeth Ozer, Arik V. Marcell. "Associations of Well-Visit Attendance Patterns from Mid-Adolescence to Young Adulthood with Substance Use Engagement." [Manuscript in revision for journal submission]

Akande, Morayo, Kathryn Van Eck, **Xingyun Wu**, Eliana M. Perrin, Lingxin Hao, Pamela Matson, Elizabeth Ozer, Arik V. Marcell. "Latent Class Trajectories of Preventive Care Receipt among Adolescents During the Transition to Young Adulthood." [Manuscript in revision for submission for journal submission]

Wu, Xingyun, Nanxun Li, Eric Fong*. "Migration and Family Formation: How Do Migration and Educational Experiences Relate to Parenthood?"

Li, Nanxun, **Xingyun Wu**, Eric Fong*. "Social Network, Perceived Upward Mobility, and Social Trust on Fertility Desire in Hong Kong."

Working Paper

Hao, Lingxin, **Xingyun Wu**, and Wenxuan Huang. "Place Resilience: The Capacity of Retaining Human and Financial Capital in the Face of Climate Change."

Hao, Lingxin, **Xingyun Wu**, and Wenxuan Huang. "Climate Risks, County Dyads, and Migration Network Structure in the United States 2011-2020."

Van Eck, Kathryn, **Xingyun Wu**, Morayo Akande, Eliana M. Perrin, Pamela Matson, Elizabeth Ozer, and Arik V. Marcell. "Latent Class Models for Health Promotion and Risk Behaviors Differ from Mid-Adolescence to Young Adulthood Across Health Needs, Well-Visits, and Race/Ethnicity."

Akande, Morayo, **Xingyun Wu**, Eliana M. Perrin, Lingxin Hao, Pam Matson, Elizabeth Ozer, Kathryn Van Eck, Arik V. Marcell. "Preventive Care Advice Receipt Across Health Areas from Mid-Adolescence to Young Adulthood: Who Receives Care?"

Zheng, Jiayu, Lingxin Hao, Kelun Lu, Ashi Garg, Mike Reese, Melo-Jean Yap, I-Jeng Wang, **Xingyun Wu**, Wenrui Huang, Jenna Hoffman, Ariane Kelly, My Le, Ryan Zhang, Yanyu Lin, Muhammad Faayez and Anqi Liu. "How Students Learn with AI: A Field Experiment in College STEM Gateway Classes."

White, Alexandre, **Xingyun Wu**, and Lingxin Hao. "The Strength of Interdisciplinary Ties: The Emergence of HIV/AIDS Field from Scientific Co-Citation Networks."

Wu, Xingyun. "Latent Structure of Occupational Mobility: A Network Approach."

Honors and Awards

2024   Hopkins Population Center Student Summer Fellowship, Johns Hopkins University

2024	Population Association of America Annual Meeting Poster Winner
2020	Levin Fellowship, for participation in ICPSR summer program, Johns Hopkins University
2017	Two-thirds tuition grant, M.A. in Computational Social Science program, University of Chicago
2016	One-half tuition grant, M.A. in Computational Social Science program, University of Chicago
2015	China National Scholarship for Graduate Students
2014	Outstanding Undergraduate Thesis, Sun Yat-sen University

Computational Methods and Skills

Methods	**Machine learning**	Supervised, semi-supervised, and unsupervised machine learning; feature selection; cross-validation. Rich experience in:
		• Statistical learning with linear models, tree-based models, and support vector machines.
		• Deep learning with neural networks and transformers.
	Network analysis	Community detection, latent space modeling, ERGM, multi-dimensional network analysis, and visualization.
	Textual data analysis	Word embedding, semantic analysis, topic modeling, natural language processing, and textual data processing.
	Statistical modeling	Systems of equations models, multi-level/hierarchical linear models, panel data analysis, categorical data analysis, linear models, multiple imputations, and latent class analysis.
	Sequence analysis	Clustering, supervised and semi-supervised sequence classification, and visualization.
	Spatial data analysis	Spatial regression analysis, network analysis, and visualization.
Skills	**Python**	Programming, statistical modeling, machine learning, spatial data analysis, visualization, data processing, and data collection.
	R	Programming, statistical modeling, machine learning, spatial data analysis, visualization, data processing, and data collection.
	Stata	Statistical modeling, data processing, and visualization.
	SQL	Relational database management and data query.
	LaTex	Manuscript formatting and bibliography management.
	Java	Programming.
	GeoDa	Spatial data analysis.
	Gephi	Graph visualization.

Conference

2025   **American Sociological Association Annual Meeting**

> **Wu, Xingyun**. "Couple's Household Labor: New Insights with Observed-Synthetic Data Using Supervised Machine Learning and Actor-Partner Interdependence Model."

Population Association of America Annual Meeting

> **Wu, Xingyun**. "The Division of Household Labor: Couple Analysis on Observed-Synthetic Data."

Society for Adolescent Health and Medicine Annual Meeting

> Marcell, Arik V., Morayo Akande, **Xingyun Wu**, Eliana M. Perrin, Lingxin Hao, Pamela Matson, Kathryn Van Eck, and Elizabeth Ozer. "Well-visit attendance from mid-adolescence to young adulthood: Who remains engaged?"

> Van Eck, Kathryn, Morayo Akande, **Xingyun Wu**, Eliana M. Perrin, Lingxin Hao, Pamela Matson, Elizabeth Ozer, and Arik V. Marcell. "Associations of well-visit attendance patterns from mid-adolescence to young adulthood with substance use engagement."

8th AAAI/ACM Conference on AI, Ethics, and Society

> Zheng, Jiayu, Lingxin Hao, Kelun Lu, Ashi Garg, Mike Reese, Melo-Jean Yap, I-Jeng Wang, **Xingyun Wu**, Wenrui Huang, Jenna Hoffman, Ariane Kelly, My Le, Ryan Zhang, Yanyu Lin, Muhammad Faayez and Anqi Liu. "Do students rely on AI? Analysis of student-ChatGPT conversations from a field study."

2024   American Sociological Association Annual Meeting

> **Wu, Xingyun**, Lingxin Hao, Wenxuan Huang. "Place Resilience: The Capacity of Retaining Human and Financial Capital in the Face of Climate Change."

> **Wu, Xingyun**. "Spillover of Structural Constraints: Gender Structure in the Work, Family, and Person Spheres?"

Population Association of America Annual Meeting

> **Wu, Xingyun**. "Structural Influence of Work Contexts on Division of Unpaid Domestic Labor." *PAA Poster Winner.*

> **Wu, Xingyun**. "Gendered Organization of Everyday Life: How Does Work Time Matter?"

10th International Conference on Computational Social Science

> Hao, Lingxin, **Xingyun Wu**, Wenxuan Huang. "Climate Risks, County Dyads, and Migration Network Structure in the United States 2011-2020."

> Hao, Lingxin, Anqi Liu, Kelun Lu, Ashi Garg, Mike Reese, I-Jeng Wang, **Xingyun Wu**, Wenrui Huang, Jiayu Zheng, Melo Yap, Jenna Hoffman, and Ariane Kelly. "Exploring College Student-ChatGPT Interaction Patterns: Natural Language Processing of Conversational Data in a Randomized Experiment."

Society for Adolescent Health and Medicine Annual Meeting

> Van Eck, Kathryn, **Xingyun Wu**, Morayo Arkande, Eliana M. Perrin, Pamela Matson, Elizabeth Ozer, Arik V. Marcell. "Latent Class Models for Health Promotion and Risk Behaviors Differ from Mid-Adolescence to Young Adulthood Across Health Needs, Well-Visits, and Race/Ethnicity."

> Marcell, Arik V., **Xingyun Wu**, Charles R. Robinson-Snead, Morayo Arkande, Pamela Matson, Elizabeth Ozer, Kathryn Van Eck. "Low Levels of Substance Use Preventive Care at Well-Visits Observed from Mid-Adolescence to Young Adulthood that Differed by Substance Use Status."

2023   American Sociological Association Annual Meeting

Wu, Xingyun. "Gendered Arrangements of Personal Sphere: Social Constraints from Work and Family."

Population Association of America Annual Meeting

Wu, Xingyun. "Gender and Class-Based Constraints on Personal Activities and Mental Well-Being."

Wenxuan Huang, Lingxin Hao, **Xingyun Wu**, Xiao Yu, and Erjia Cui. "Gender Difference in Objectively Measured Physical Activity in the 'Second Shift'."

2022   **Population Association of America Annual Meeting**

Wu, Xingyun, Wenxuan Huang, and Lingxin Hao. "Social Contact in COVID-19 Pandemic: What Could We Learn from Survey Data on Activities?"

2021   **American Sociological Association Annual Meeting**

Wu, Xingyun. "Latent Structure of Occupational Mobility: A Network Approach."

2020   **Population Association of America Annual Meeting** (cancelled due to COVID-19)

White, Alexandre, **Xingyun Wu**, and Lingxin Hao. "Latent Communities behind the Emergence of the HIV/AIDS Field: A Network Modeling Approach."

Work Experience

Research	**Research assistant**	
	2021—2022, 2024	Hopkins Population Center, Johns Hopkins University.
	2023—present	PI: Arik V. Marcell, Johns Hopkins University.
	2018—2020, 2023—2024	PI: Lingxin Hao, Johns Hopkins University.
	Research affiliate	
	2017—2018	PI: Terry Clark, University of Chicago.
Teaching	**Teaching assistant**	
	2020	Introduction to Social Statistics, Johns Hopkins University.
	2020	Research Methods for the Social Sciences, Johns Hopkins University.
	Instructor	
	2020—2021	Chinese Language Corner, Johns Hopkins University.
	2017	Computational Social Sciences Summer Program, Sun Yat-sen University
Survey	**Survey supervisor**	
	2014—2016	Survey on Foreigners in Guangzhou, Sun Yat-sen University.
	2014	China Longitudinal Aging Social Survey (CLASS), Renmin University.
	2011	China Labor-force Dynamics Survey (CLDS), Sun Yat-sen University.