

# Curriculum Vitae

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## Xingyun Wu

Ph.D. Candidate, 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

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

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## Education

<b>Johns Hopkins University</b>	<b>2018—2025 (expected)</b>
Ph.D., Sociology	Expected Summer 2025
Ph.D. Candidate, Sociology	2022
M.A., Sociology	2021
<b>University of Chicago</b>	<b>2016—2018</b>
M.A., Computational Social Science	2018
<b>Hong Kong University of Science and Technology</b>	<b>2013-2014</b>
M.Sc., Global China Studies	2014
<b>Sun Yat-sen University</b>	<b>2010-2016</b>
M.A., Sociology	2016
B.A., Sociology	2014

## Publication

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, dissertation paper]

**Wu, Xingyun**. "The Division of Household Labor: Couple Analysis on Observed-Synthetic Data with Machine Learning." [Completed manuscript, dissertation paper]

**Wu, Xingyun**. "Work, Family, and Personal Sphere as an Integrated System: Structural Constraints on Activity-Time Allocation Across Spheres." [Dissertation paper in progress]

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?” [R & R]

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 being finalized for submission to journal]

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 being finalized for submission to journal]

### **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.”

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**

<b>2024</b>	Hopkins Population Center Student Summer Fellowship, Johns Hopkins University (\$5,000)
<b>2024</b>	Population Association of America Annual Meeting Poster Winner
<b>2020</b>	Levin Fellowship, for participation in ICPSR summer program, Johns Hopkins University
<b>2017</b>	Two-thirds tuition grant, M.A. in Computational Social Science program, University of Chicago
<b>2016</b>	One-half tuition grant, M.A. in Computational Social Science program, University of Chicago
<b>2015</b>	China National Scholarship for Graduate Students
<b>2014</b>	Outstanding Undergraduate Thesis, Sun Yat-sen University

### **Computational Methods and Skills**

<b>Methods</b>	<b>Machine learning</b>	Supervised, semi-supervised, and unsupervised machine learning; feature selection; cross-validation. Rich experience in:
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		<ul style="list-style-type: none"> <li>• Statistical learning with linear models, tree-based models, and support vector machines.</li> <li>• Deep learning with neural networks and transformers.</li> </ul>
	<b>Network analysis</b>	Community detection, latent space modeling, ERGM, multi-dimensional network analysis, and visualization.
	<b>Textual data analysis</b>	Word embedding, semantic analysis, topic modeling, natural language processing, and textual data processing.
	<b>Statistical modeling</b>	Systems of equations models, multi-level/hierarchical linear models, panel data analysis, categorical data analysis, linear models, multiple imputations, and latent class analysis.
	<b>Sequence analysis</b>	Clustering, supervised and semi-supervised sequence classification, and visualization.
	<b>Spatial data analysis</b>	Spatial regression analysis, network analysis, and visualization.
<b>Skills</b>	<b>Python</b>	Programming, statistical modeling, machine learning, spatial data analysis, visualization, data processing, and data collection.
	<b>R</b>	Programming, statistical modeling, machine learning, spatial data analysis, visualization, data processing, and data collection.
	<b>Stata</b>	Statistical modeling, data processing, and visualization.
	<b>SQL</b>	Relational database management and data query.
	<b>LaTex</b>	Manuscript formatting and bibliography management.
	<b>Java</b>	Programming.
	<b>GeoDa</b>	Spatial data analysis.
	<b>Gephi</b>	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.”

**8<sup>th</sup> AAI/ACM Conference on AI, Ethics, and Society** (submission under review)

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?”

**10<sup>th</sup> 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.