

Jiao Yu

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University of Minnesota

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EDUCATION

Present	Ph.D. Sociology	Case Western Reserve University
2014	M.S. Sociology	Peking University
2011	B.S. Sociology	Central University of Finance and Economics
	Finance (minor)	

ACADEMIC

Postdoctoral Associate, Institute for Social Research & Data Innovation / Minnesota

APPOINTMENT

Population Center, University of Minnesota 2020-2021

DISSERTATION

Fertility History and Later Life Health: A Sequence Analysis of Cohorts before and during the One-Child Policy Era in China

Committee: Jessica A. Kelley, Eva Kahana, Susan W. Hinze, Jing Li

RESEARCH INTERESTS

Aging and Life Course, Quantitative Methods, Health Disparities, Medical Sociology,

PUBLICATIONS *Peer-Reviewed Articles*

Jiao Yu, Wenxuan Huang and Eva Kahana (2021). Investigating Factors of Active Aging among Chinese Older Adults: A Machine Learning Approach. *The gerontologist*. DOI:10.1093/geront/gnab058.

Jiao Yu, Eva Kahana, Boaz Kahana and Yuhan Zhang (2021). Driving Cessation in Old Age: Gender Influences on Mortality. *Journal of Aging and Health*. <https://doi.org/10.1177/0898264321991254>.

Jiao Yu, Yulin Yang and Eva Kahana (2020). Productive Activity Patterns and Functional Health: A Comparison of Urban and Rural Chinese Older Adults. *International Journal of aging and human development*, 91:4, 538–562. <https://doi.org/10.1177/0091415019900168>.

Jiao Yu, Eva Kahana, Boaz Kahana and Chengming Han (2021). Depressive Symptoms among Elderly Men and Women Who Transition to Widowhood: Comparisons with Long Term Married and Long Term Widowed over a 10-Year Period. *Journal of Women & Aging*, 33:3, 231-246, DOI: 10.1080/08952841.2019.1685855

Boaz Kahana, **Jiao Yu**, Eva Kahana, and Kaitlyn Barnes Langendoerfer (2018). Whose Advocacy Counts in Shaping Elderly Patients' Satisfaction with Physicians' Care and Communication? *Clinical Interventions in Aging*, 13:1161–68.

Featured in Association of Health Care Journalists:

<https://healthjournalism.org/blog/2018/10/older-adults-want-physicians-to-advocate-on-their-behalf-study/>

Sahera Dirajlal-Fargo, **Jiao Yu**, Zainab Albar, Abdus Sattar, Sana Mahtab, Jennifer Jao, Landon Myer, Heather J Zar, Grace McComsey, G. (2020). Monocyte Activation

and Gut Barrier Dysfunction in South African Youth on Antiretroviral Therapy and Their Associations with Endothelial Dysfunction. *AIDS*, 34(11),1615–1623.

Sahera Dirajlal-Fargo, **Jiao Yu**, Manjusha Kulkarni, Abdus Sattar, Nicholas Funderburg, Hope Barkoukis, and Grace A. Mccomsey (2019). Zinc Supplementation and Inflammation in Treated HIV. *JAIDS Journal of Acquired Immune Deficiency Syndromes* 82(3):275–80. doi: 10.1097/QAI.0000000000002129.

Sahera Dirajlal-Fargo, Abdus Sattar, **Jiao Yu**, Zainab Albar, Chaves Fabio, Ken Riedl, Cissy Kityo, Emily Bowman, Grace A McComsey, Nicholas Funderburg (2021). Lipidome Association with Vascular Disease and Inflammation in HIV+ Ugandan Children. *AIDS*, <https://doi.org/10.1097/QAD.0000000000002923>.

Fei Wang, Weidi Qin and **Jiao Yu**, Neighborhood Social Cohesion and Mobility Limitations Among Community-Dwelling Older Adults: The Mediating Roles of Depressive Symptoms and Mastery. *International Journal of Aging and Human Development*. <https://doi.org/10.1177/00914150211037657>.

Valerie Toly, Carol Musil, **Jiao Yu**, Abdus Sattar, Jaclene Zauszniewski. Resourcefulness Intervention Effectiveness for Parent Caregivers of Technology-Dependent Children. *Western Journal of Nursing Research* (In press).

Yazdan Raji, John Strony, Nikunj Trivedi, Elisabeth Kronenberger, **Jiao Yu**, Jacob Calcei, James Voos, Robert Gillespie. Effects of Opioid-Limiting Legislation on Post-operative Opioid Use in Shoulder Arthroplasty in an Epidemic Epicenter. *Journal of Shoulder and Elbow Surgery*. doi: 10.1016/j.jse.2021.07.001.

Book Chapters

Jessica A. Kelley and **Jiao Yu** (2018). Social Change, Social Institutions, and Cohorts: Contextualizing Men's Health in Later Life. In Toni C. Antonucci (Eds.), *Annual Review of Gerontology and Geriatrics* Volume 39, (pp. 5-22). Springer Publishing Company.

Dale Dannefer, Chengming Han and **Jiao Yu**. Inequality Across Time: History, Biography and the Life Course *The Routledge International Handbook of Inequalities and the Life Course*. Routledge (In press).

Boaz Kahana, Eva Kahana, Tirth Bhatta, Minzhi Ye and **Jiao Yu** (2017). Altruism and Life Satisfaction among LGBT Older Adults. In Alexandra M. Columbus (Ed.), *Advances in Psychology Research*. Volume 120, chapter 3 (pp. 45-58). Hauppauge, NY: Nova Science Publisher, Inc.

Boaz Kahana, Eva Kahana, Jeong Eun Lee, Jeffrey Kahana, and **Jiao Yu** (2015). Perspectives of Older Adults on Health Communication Related to Cancer Prevention and Care. In R. Caron (Ed.), *Health Communication: Advocacy Strategies, Effectiveness and Emerging Challenges* (pp. 15-26). Hauppauge, NY: Nova Science Publisher, Inc.

Manuscripts Under review

Sophia Toe, Matthew Nagy, Zainab Albar, **Jiao Yu**, Abdus Sattar,..., Sahera Dirajlal-Fargo. Ambient Air Pollution is Associated with Vascular Disease in Ugandan HIV+ Adolescents. Submitted to *AIDS*.

Yazdan Raji, John Strony, Nikunj Trivedi, Christopher McMellen, **Jiao Yu**, Jacob Calcei, James Voos, Robert Gillespie. Opioid-Limiting Legislation in Ohio Reduces Opioid Prescription Following Shoulder Arthroscopy. Submitted to *Arthroscopy: The Journal of Arthroscopic and Related Surgery*.

Manuscripts In Progress

Jiao Yu. Oral health and mortality risk in later life: a study among middle-aged and older adults.

Jiao Yu. A Cohort Analysis of Women's Fertility History in China: A Decomposition Approach.

Jiao Yu. Fertility history and later life health trajectories: A sequence analysis of cohorts before and during the One-Child Policy era.

CONFERENCE PRESENTATION **Jiao Yu** (2021), Cumulative Advantage/Disadvantage or Selection: Chinese Women's Fertility History and Later Life Health, presented at the 116th Annual Meeting of the American Sociology Association, online..

Jiao Yu and Eva Kahana (2020). Driving Cessation in Old Age: Gender Influences on Mortality, presented at the Gerontological Society of America's (GSA) 2020 Annual Scientific Meeting, online.

Jiao Yu (2020), A Cohort Analysis of Fertility History of Older Women in China, presented at the 115th Annual Meeting of the American Sociology Association, online.

Jiao Yu (2020). Oral Health and Mortality Risk in Later Life: A Study among Middle-aged and Older Adults, presented at the 2020 Annual Meeting of the Population Association of America, online.

Jiao Yu, Eva Kahana, Boaz Kahana and Chengming Han (2018). Older Men Hit Hard in Transition to Widowhood, presented at the Gerontological Society of America's (GSA) 2018 Annual Scientific Meeting. Boston, Massachusetts.

Jiao Yu and Eva Kahana (2018). Active Aging in China: The Role of Individual Characteristics and Local Context, presented at the Gerontological Society of America's (GSA) 2018 Annual Scientific Meeting. Boston, Massachusetts.

Jiao Yu (2018). A Longitudinal Analysis of Productive Aging and Functional Health of Chinese Older Adults: Individual and Context Characteristics, presented at the 113th Annual Meeting of the American Sociological Association. Philadelphia, Pennsylvania.

Jiao Yu (2018). A Multilevel Analysis of Socioeconomic Status and Health Disparity Among Chinese Elderly, presented at the 2018 Annual Meeting of the Population Association of America. Denver, Colorado.

Jiao Yu (2017). Functional Limitations and Depression of Chinese Older Adults: An Intersectionality Perspective, presented at the 112th Annual Meeting of the American Sociological Association. Montreal, Canada.

Jiao Yu, Jessica Kelley-Moore, Eva Kahana and Boaz Kahana (2016). Social Cascade of Mortality: Capturing Changes in Social Activities and Engagement in Final Years. Poster Presented at the Gerontological Society of America's (GSA) 69th Annual Scientific

Jiao Yu, Eva Kahana, Boaz Kahana, Minzhi Ye and Julia K. Wolf (2015). A Propensity Score Matching Analysis of the Health Disparities between LGBT and Non-LGBT Older Adults. Poster Presented at the Gerontological Society of America's (GSA) 68th Annual Scientific Meeting, Orlando, Florida.

RESEARCH EXPERIENCE

- **Biostatistician** for Dr. Abdus Sattar 2017-2021
Department of Biostatistics, Case Western Reserve University.
 - **Prescription-limiting Laws and Opioid Use After Joint Arthroplasty**
 - Applied Inverse Probability Weighting (IPW)-based Treatment Effect Models to examine the changes of opioid use pre and post prescription limiting legislation.
 - **CD14 is associated with endothelial dysfunction in HIV+ youth (NIH K23)**
 - Applied correlation analysis and Quantile Regression to examine the longitudinal changes of endothelial dysfunction among HIV infected youth.
 - **The effects of exercise intensity on blood pressure response in old adults after lifestyle exercise intervention (NIH R01)**
 - Applied Linear Mixed Effects Model with random slope to examine the association between changes in blood pressure and the demographic, clinic, and health behavioral characteristics.
- **Research Assistant** for Dr. Eva Kahana 2014-2017
Elderly Care Research Center, Case Western Reserve University
 - Funding: National Cancer Institute, Health Care Partnerships in Cancer Prevention Among the Aged.
- **Research Assistant** for Dr. Jessica Kelley 2014-2020
Sociology Department, Case Western Reserve University.
 - **Heterogeneity in functional limitations among black and white men**
 - Performed data wrangling by conducting extensive STATA programming to construct a 12-wave longitudinal dataset with 219,000 samples from HRS data. Applied Multilevel Modeling with variance decomposition to examine health outcomes.

TEACHING

- Course Instructor*
- SOCI 303 Social Research Method (Undergraduate level) 2017
- Teaching Assistant*
- SOCI 509 Advanced Social Statistics (Graduate Level) 2019
 - CRSP 406 Introduction to R Programming (Graduate Level) 2018
 - SOCI 525 Multilevel Modelling (Graduate Level) 2017
- Invited Guest Lecturer*
- SOCI 306: Logic of Social Inquiry: Introduction of Stata 2019
 - SOCI 306: Stress and Coping: Measurement of Stress and Coping. 2018

AWARDS & HONORS

- Graduate Student Professional Development Fund(\$300). 2020
- Marie Haug Award in Exemplary Gerontological Studies (\$500). 2019
- Medical Humanities & Social Medicine Student Travel Grants (\$250). 2018
- Graduate Student Travel Award (\$500) 2018
- Eva L. Pancoast Memorial Fellowship (\$3500). 2017
- Eva L. Pancoast Memorial Fellowship (\$3500). 2015

SKILLS

Programming Skills: STATA, R, SPSS, Python, Git, L^AT_EX
Languages: English (professional fluent), Mandarin (native)

**STATISTICAL
METHODS**

Sequence Analysis, Multilevel Modeling, Survival Analysis, Propensity Score Matching,
Data Visualization, Machine Learning,

MEMBERSHIP

American Sociological Association
Population Association of America
The Gerontological Society of American

**EDITORIAL
REVIEWER**

The Journals of Gerontology: Series B Social Sciences
Aging and Mental Health
International Psychogeriatrics
The International Journal of Aging and Human Development