

# Jiao (Jo) Yu

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EDUCATION	2021	Ph.D. Sociology	Case Western Reserve University
	2014	M.A. Sociology	Peking University
	2011	B.A. Sociology	Central University of Finance and Economics
		Finance (minor)	

ACADEMIC POSITION	2021-	Postdoctoral Associate, IPUMS Minnesota Population Center, University of Minnesota
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RESEARCH INTERESTS	Aging and Life Course, Quantitative and Data Science Methods, Social Determinants of Health, Reproductive Health
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DISSERTATION	Fertility History and Later Life Health: A Sequence Analysis of Cohorts before and during the One-Child Policy Era in China <i>Committee:</i> Jessica A. Kelley, Eva Kahana, Susan W. Hinze, Jing Li
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## PUBLICATIONS *Peer-Reviewed Articles*

**Jiao Yu**, Weidi Qin, Wenxuan Huang, Kristi Sutton-Thomas. 2022. "Oral Health and Mortality among Older Adults: A Doubly Robust Survival Analysis." *American Journal of Preventive Medicine*. doi:10.1016/j.amepre.2022.08.006.

**Jiao Yu**, Wenxuan Huang, and Eva Kahana. 2022. "Investigating Factors of Active Aging Among Chinese Older Adults: A Machine Learning Approach." *The Gerontologist* 62(3):332–41. doi: 10.1093/geront/gnab058.

**Jiao Yu**, Eva Kahana, Boaz Kahana, and Yuhua Zhang. 2021. "Driving Cessation in Old Age: Gender Influences on Mortality." *Journal of Aging and Health* 33(7–8):447–57. doi: 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." *The International Journal of Aging and Human Development* 91(4):538–62. doi: 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):231–46. 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. doi: 10.2147/CIA.S165086.

*\*Featured in the [Association of Health Care Journalists](#)*

Fei Wang, Weidi Qin, and **Jiao Yu**. 2022. “Neighborhood Social Cohesion and Mobility Limitations Among Community-Dwelling Older Americans: The Mediating Roles of Depressive Symptoms and Mastery.” *The International Journal of Aging and Human Development* 94(3):290–311. doi: 10.1177/00914150211037657.

Sahera Dirajlal-Fargo, **Jiao Yu**, Zainab Albar, Abdus Sattar, Sana Mahtab, Jennifer Jao, Landon Myer, Heather J. Zar, and Grace A. McComsey. 2020. “Monocyte Activation and Gut Barrier Dysfunction in South African Youth on Antiretroviral Therapy and Their Associations with Endothelial Dysfunction.” *AIDS* (London, England) 34(11):1615–23. doi: 10.1097/QAD.0000000000002615.

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

Sahera Dirajlal-Fargo, Abdus Sattar, **Jiao Yu**, Zainab Albar, Fabio C. Chaves, Ken Riedl, Cissy Kityo, Emily Bowman, Grace A. McComsey, and Nicholas Funderburg. 2021. “Lipidome Association with Vascular Disease and Inflammation in HIV+ Ugandan Children.” *AIDS*, 35(10):1615–23. doi: 10.1097/QAD.0000000000002923.

Valerie Boebel Toly, Jaclene A. Zauszniewski, **Jiao Yu**, Abdus Sattar, Bethany Rusincovitch, and Carol M. Musil. 2022. “Resourcefulness Intervention Efficacy for Parent Caregivers of Technology-Dependent Children: A Randomized Trial.” *Western Journal of Nursing Research* 44(3):296–306. doi: 10.1177/01939459211062950.

Sophia Toe, Matthew Nagy, Zainab Albar, **Jiao Yu**, Abdus Sattar, Rashida Nazzinda, Victor Musiime, Samuel Etajak, Felix Walyawula, Grace A. McComsey, Lynn M. Atuyambe, and Sahera Dirajlal-Fargo. 2022. “Ambient Air Pollution Is Associated with Vascular Disease in Ugandan HIV-Positive Adolescents.” *AIDS* 36(6):863–70. doi: 10.1097/QAD.0000000000003186.

Ryan J. Furdock, Elizabeth Cho, Alexander J. Benedick, **Jiao Yu**, Abdus Sattar, and Raymond W. Liu. 2022. “The Utility of the Modified Fels Knee Skeletal Maturity System in Limb Length Prediction.” *Journal of Pediatric Orthopaedics* 42(6):327–34. doi: 10.1097/BPO.0000000000002157.

Sunita RP Mengers, John Strony, Lakshmanan Sivasundaram, **Jiao Yu**, Donald Goodfellow, Michael J Salata, James E Voos, Michael R Karns. 2022. “Oral Ketorolac as an Adjuvant Agent for Postoperative Pain Control After Arthroscopic Anterior Cruciate Ligament Reconstruction: A Prospective, Randomized Controlled Study”. *JAAOS - Journal of the American Academy of Orthopaedic Surgeons*, 30(24), e1580. doi: 10.5435/JAAOS-D-21-00721.

Yazdan Raji, John T. Strony, Nikunj N. Trivedi, Elisabeth Kroneberger, **Jiao Yu**, Jacob G. Calcei, James E. Voos, and Robert J. Gillespie. 2022. “Effects of Opioid-Limiting Legislation on Postoperative Opioid Use in Shoulder Arthroplasty in an Epidemic Epicenter.” *Journal of Shoulder and Elbow Surgery* 31(2):269–75. doi: 10.1016/j.jse.2021.07.001.

Vanessa El Kamari, Christian Mouchati, Abdus Sattar, **Jiao Yu**, Grace A. McComsey. 2022. “Comprehensive Assessment of Neurocognitive Function, Inflammation, and Adiposity in treated HIV and Control”. *Medicine*. 2022 Oct 21;101(42):e31125.

John T. Strony, Yazdan Raji, Ina, Jason, **Jiao Yu**,..., Michael J. Salata. 2023. "The Effects of Opioid-Limiting Legislation and Increased Provider Awareness on Postoperative Opioid Use and Complications Following Hip Arthroscopy". *The Orthopaedic Journal of Sports Medicine*. (Accepted)

### **Book Chapters**

Jessica A. Kelley and **Jiao Yu** (2019). 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** (2021). Inequality Across Time: History, Biography and the Life Course *The Routledge International Handbook of Inequalities and the Life Course* (pp. 4-14).Routledge.

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**

**Jiao Yu**, Wenxuan Huang. "Precaution or Precarity? The Impact of the COVID-19 Pandemic on Older Adults Social Engagement" (Submitted to Innovation in Aging).

**Jiao Yu**, Kathryn Grace, Elizabeth Heger Boyle, Matt Gunther, Devon Kristiansen. "Covid-19 and contraceptive use in two African countries: Examining conflicting pressures on women". (Revise and Resubmit to Population and Development Review)

**Jiao Yu**, Elizabeth Heger Boyle, Yanxuan Zhang, Kathryn Grace, Gabriel Sangli. "Institutional Trust, Interpersonal Trust, and COVID Precautionary Measures during the Early Days of the COVID-19 Pandemic: Evidence from Two African Countries." (Revise and Resubmit to Social Science and Medicine-Population Health)

Weidi Qin, **Jiao Yu**, Belinda Needham. "Negative Wealth Shock and Depression in Middle-Aged and Older Adults in the United States: 2008 – 2018." (Submitted to American Journal of Public Health)

Maya Luetke, Kathryn Grace, **Jiao Yu**, Matt Gunther. "The impact of armed conflict on pregnancy terminations in Burkina Faso." (Submitted to Demography)

**Jiao Yu**. "A Cohort Analysis of Women's Fertility History in China: A Decomposition Approach." (Submitted to Advance in Life Course Research)

### **Manuscripts In Progress**

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

**Jiao Yu**, Devon Kristiansen, Kathryn Grace, Elizabeth Heger Boyle (2022). “Factors Associated with Contraceptive Use Profiles in Two sub-Saharan African Countries: A Sequence Analysis.”

Weidi Qin, **Jiao Yu**. Neighborhood Physical Disorder, Health Behaviors, and Inflammation Among Older Adults: A Mediation Analysis

Wenxuan Huang, **Jiao Yu**. Associations between Daily Activities and Subjective Well-Being among Older Adults: Evidence from the 2021 American Time Use Survey

**CONFERENCE PRESENTATION (selected)** **Jiao Yu** (2022). Fertility History and Biological Functioning in a Chinese Aging Population, presented at the Society for Longitudinal and Life Course 2022 International Annual Conference. Cleveland, Ohio.

**Jiao Yu**, Devon Kristiansen, Kathryn Grace, Elizabeth Heger Boyle (2022). Factors Associated with Contraceptive Use Profiles in Two sub-Saharan African Countries: A Sequence Analysis presented at the Interdisciplinary Association for Population Health Science (IAPHS) 2022 Annual Meeting. Minneapolis, MN.

**Jiao Yu**, Kathryn Grace, Elizabeth Heger Boyle, Matt Gunther, Devon Kristiansen (2022). Social trust, modern contraceptive use, and Covid-19 knowledge in three African countries, presented at the 2022 Annual Meeting of the Population Association of America. Atlanta, Georgia.

**Jiao Yu**, Kathryn Grace, Elizabeth Heger Boyle, Matt Gunther, Devon Kristiansen (2021). Trust, Covid-19, and Contraceptive Use: Examining the linkages in Burkina Faso and Kenya presented at Pandemic Babies? The Covid-19 Pandemic and Its Impact on Fertility and Family Dynamics Conference (virtual).

**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 (virtual).

**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 (virtual).

**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 (virtual).

**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 (virtual).

**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.

## RESEARCH EXPERIENCE

- **Biostatistician** for Dr. Abdus Sattar 2017-2021  
Department of Biostatistics, Case Western Reserve University.
  - Grant: NIH/NIDDK R01 DR121619 “Effects of GLP-1 receptor agonists on cardiometabolic alterations in HIV-associated lipohypertrophy.” PI: Grace A McComsey
  - Grant: NIH/NINR R01 NR017614 “Resourcefulness Intervention to Promote Self-Management in Parents Of Technology-Dependent Children.” PI:Valerie Boebel Toly
- **Research Assistant** for Dr. Eva Kahana 2014-2017  
Elderly Care Research Center, Case Western Reserve University
  - Grant: National Cancer Institute, “Health Care Partnerships in Cancer Prevention Among the Aged.” PI: Eva Kahana
- **Research Assistant** for Dr. Jessica Kelley 2014-2020  
Sociology Department, Case Western Reserve University.
  - Project: Heterogeneity in functional limitations among black and white men

## 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
- SOCI 445 Sociology of Mental Illness (Graduate Level)

### *Invited Guest Lecturer*

- SOCI 306: Logic of Social Inquiry: Introduction of Stata 2019
- SOCI 306: Stress and Coping: Measurement of Stress and Coping. 2018

## Grants & Fellowships

- Investigating the role of structural racism in mortality among middle-aged and older adults (submitted). 2022
- From physiological dysregulation to cognitive outcomes: neighborhood disorder, allostatic load, and cognitive health among older adults (submitted). 2023
- Society for Longitudinal and Life Course Studies Conference Bursary Award (£415) 2022
- Graduate Student Professional Development Fund(\$1300). 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

<b>SKILLS</b>	<i>Programming Skills:</i> STATA, R, SPSS, Python, Git, L <sup>A</sup> T <sub>E</sub> X <i>Languages:</i> English (professional fluent), Mandarin (native)
<b>STATISTICAL METHODS</b>	Sequence Analysis, Multilevel Modeling, Mixed Effects Modeling, Survival Analysis, Propensity Score Matching, Data Visualization, Machine Learning Models
<b>MEMBERSHIP</b>	American Sociological Association Population Association of America The Gerontological Society of American The Interdisciplinary Association for Population Health Science (IAPHS)
<b>EDITORIAL REVIEWER</b>	Journal of Health and Social Behavior The Journals of Gerontology: Series B Social Sciences Aging and Mental Health Research on Aging BMJ Open International Journal of Environmental Research and Public Health The International Journal of Aging and Human Development Journal of Geriatric Psychiatry and Neurology

Updated: February 26, 2023