

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 Finance (minor)	Central University of Finance and Economics

ACADEMIC POSITION

2023	Postdoctoral Associate, School of Public Health, Yale University	
2021	Postdoctoral Associate, Minnesota Population Center, University of Minnesota	

RESEARCH INTERESTS Aging and Life Course, Health disparities, Quantitative and Data Science Methods, Reproductive Health

PUBLICATIONS *Peer-Reviewed Articles*

Jiao Yu, Kathryn Grace, Elizabeth Heger Boyle, Jude Patrick Mikal, Matthew Gunther, Devon Kristiansen. 2024. “COVID-19 and Contraceptive Use in Two African Countries: Examining Conflicting Pressures on Women.” *Population and Development Review*. doi:10.1111/padr.12606

Jiao Yu, Weidi Qin, Wenxuan Huang, Kristi Sutton-Thomas. 2023. “Oral Health and Mortality among Older Adults: A Doubly Robust Survival Analysis.” *American Journal of Preventive Medicine*. 64(1):9–16. 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, Elizabeth Heger Boyle, Yanxuan Zhang, Kathryn Grace, Gabriel Sangli. 2023. “Trust and COVID Precautionary Measures during the Early Days of the COVID-19 Pandemic: Evidence from Two African Countries.” *Social Science and Medicine - Population Health*. doi.org/10.1016/j.ssmph.2023.101397

Jiao Yu, Eva Kahana, Boaz Kahana, and Yuhan 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: 10.1177/009141502111037657.

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: 10.1177/019394592111062950.

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 - The Journal of the American Academy of Orthopaedic Surgeons*, 30(24), e1580–e1590. 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.

Christian Mouchati, Vanessa El Kamari, 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.DOI: 10.1097/MD.00000000000031125

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”. *Orthopaedic Journal of Sports Medicine*. 11(5), 23259671231162340. <https://doi.org/10.1177/23259671231162340>

John T. Strony, Yazdan Raji, Nikunj N. Trivedi, Christopher J. McMellen, **Jiao Yu**, Jacob G. Calcei, James E. Voos, and Robert J. Gillespie.2023. “Effects of Opioid-Limiting Legislation in the State of Ohio on Opioid Prescriptions After Shoulder Arthroscopy.” *Orthopaedic Journal of Sports Medicine* ;11(11). doi:10.1177/23259671231202242

Yeela Talmor Barkan, **Jiao Yu**, Nancy-Sarah Yacovzada, Nili Schamroth Pravda, Colby Ayers, James A. de Lemos, Jarett D. Berry, W. H. Wilson Tang, Stanley L. Hazen, Alon Eisen, Guy Witberg, Ran Kornowski, Ian J. Neeland. ”Trimethylamine-N-oxide and related metabolites are associated with increased cardiovascular risk: Results from The Dallas Heart Study.” *Mayo Clinic Proceedings* (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, Weidi Qin, Jiuzhou Wang, Eva Kahana. Thriving in Place: Unraveling the Interplay of Multi-Dimensional Neighborhood Characteristics in Shaping Successful Aging.

Jiao Yu, Weidi Qin, Theresa L. Osypuk, Viktoryia Kalesnikava. Neighborhood Disorder and Allostatic Load among Older Non-Hispanic Black and White Adults: A Machine Learning Inverse Probability Weighting Approach.

Jiao Yu, Wenxuan Huang, Eva Kahana. “Temporal and Racial Patterns of Social Engagement among Older Adults: Evidence from ATUS 2019 to 2022”

Weidi Qin, **Jiao Yu**, Belinda Needham. “Negative Wealth Shock and Depression in Middle-Aged and Older Adults in the United States: 2008 – 2018.”

Weidi Qin, Emily Nicklett, **Jiao Yu**, Ann W. Nguyen. Neighborhood Social Cohesion and Physical Disorder in Relation to Social Isolation in Older Adults: Racial and Ethnic Differences

Maya Luetke, Kathryn Grace, **Jiao Yu**, Matt Gunther. “The impact of armed conflict on pregnancy terminations in Burkina Faso.”

Jiao Yu, Jessica A. Kelley . “A Cohort Comparison of Women’s Fertility Trajectories in China: A Sequence Analysis and A Decomposition Approach”

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.”

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

RESEARCH GRANTS

NIH/NIA P30AG066613. PI: Flood \$40,784 2023-2024
University of Minnesota, Life Course Center pilot grant “Neighborhood Characteristics and Cognitive Health among Black and White Older adults:The Mediation Role of Allostatic Load.”
Role: Polit Grant PI

NIH/NIA R01AG077529-02. PI: Chen \$729,460 2023-2027
“A Life Course Approach to Understanding Racial and Ethnic Disparities in Alzheimer’s Disease and Related Dementias and Health Care.”
Role: Postdoctoral Researcher

CONFERENCE PRESENTATION (selected)

Jiao Yu, Weidi Qin, Theresa L. Osypuk, Viktoryia Kalesnikava (2024). Neighborhood Disorder and Allostatic Load among Older Non-Hispanic Black and White Adults: A Machine Learning Inverse Probability Weighting Approach, presented at the 2024 Annual Meeting of the Population Association of America. Columbus, Ohio.

Jiao Yu, Elizabeth Heger Boyle, Kathryn Grace, Yanxuan Zhang (2023). Social Capital and Covid Precautionary Measures during the Early Days of Covid-19: Evidence from Two African Countries, presented at the 2023 Annual Meeting of the Population Association of America. New Orleans, Louisiana.

Jiao Yu, Wenxuan Huang (2023). Precaution or Precarity? The Impact of the COVID-19 Pandemic on Older Adults Social Engagement, presented at the 2023 Annual Meeting of the Population Association of America. New Orleans, Louisiana.

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” accepted for poster presentation at the 2022 International Conference on Family Planning (ICFP) in Pattaya City, Thailand from November 14-17.

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 (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 (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.

FELLOWSHIPS	Society for Longitudinal and Life Course Studies Conference Bursary Award (£415)	2022
	Graduate Student Professional Development Fund (\$1300).	2020
	Advanced Study Fellowship, Case Western Reserve University (\$6750)	2019-2021
	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	

RESEARCH EXPERIENCE

- **Biostatistician** 2017-2021
Department of Biostatistics, Case Western Reserve University.
 - Grant: NIH/NIDDK R01DR121619 “Effects of GLP-1 receptor agonists on cardiometabolic alterations in HIV-associated lipohypertrophy.” PI: Grace A

McComsey

- Grant: NIH/NINR R01NR017614 “Resourcefulness Intervention to Promote Self-Management in Parents Of Technology-Dependent Children.” PI:Valerie Boebel Toly

- **Research Assistant** 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** 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

SKILLS

Programming Skills: STATA, R, SPSS, Python, Git, \LaTeX
Languages: English (professional fluent), Mandarin (native)

STATISTICAL METHODS

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

MEMBERSHIP

American Sociological Association
Population Association of America
The Gerontological Society of American
The Interdisciplinary Association for Population Health Science (IAPHS)

EDITORIAL REVIEWER

Journal of Health and Social Behavior; The Journals of Gerontology: Series B Social Sciences; Aging and Mental Health; Research on Aging; SSM-Population Health; BMJ Open; BMC Public Health; Scientific Report; BMC Geriatrics; International Psychogeriatrics; OBM Geriatrics;

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