

Liying Luo

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Education

- 2015 Ph.D. Sociology, University of Minnesota
2011 M.S. Biostatistics, University of Minnesota
2004 B.A. International Study, China Foreign Affairs University, Beijing, China

Employment

- 2016- Assistant Professor, Department of Sociology and Criminology, Pennsylvania State University
Research Associate, Population Research Institute
Faculty Affiliate, Center for Social Data Analytics
Faculty Affiliate, Center for Healthy Aging
2015-16 Assistant Professor, Department of Sociology and Criminal Justice, University of Delaware

Research Interests

Age-Period-Cohort Models, Quantitative Methods, Life Course, Trend Analysis, Health Disparities

External Research Grants

- 2021-23 National Institutes of Health, R03AG070812. "Cohort Differences in Cognitive Impairment and Alzheimer Disease and Related Dementias: Education Effects and Sex Differences." Total costs: \$321,000.00. Role: PI
2019-21 Cisco Research Center. "Education, Work, and Family Pathways of Women and Men in Computer Science, Engineering and Math." \$114,000. Role: Co-I (PI: Susan McHale)

Peer-Reviewed Publications

* indicate graduate student co-author at the time of writing

Luo, Liying. Forthcoming. "Heterogenous Effects of Intergenerational Mobility: Improved Method and New Evidence." *American Sociological Review*

Han, Feng, Jing Chen, Aaron Belkin-Rosen, Yameng Gu, **Liying Luo**, Orfeu M. Buxton, and Xiao Liu. 2021. "The Coupling of Global Brain Activity and Cerebrospinal Fluid Inflow Is Correlated with Alzheimer's Disease Related Pathology." *PLOS Biology* 19(6): e3001233
<https://doi.org/10.1371/journal.pbio.3001233>

Liao, Wenjie, and **Liying Luo**. 2021. "Gender, Education, and Attitudes toward Women's Leadership in Three East Asian Countries: An Intersectional and Multilevel Approach." *Societies* 11(3): 103-112 <https://doi.org/10.3390/soc11030103>

- Luo, Liying**, Orfeu M. Buxton, David M. Almeida, Alyssa A. Gamaldo, and Qian Xiao. 2021. "Opposite Educational Gradients in Sleep Duration between Black and White Adults, 2004-2018." *Sleep Health* 7(1): 3-9 <https://doi.org/10.1016/j.sleh.2020.10.003>
- Baumer, Eric, Kelsey Cundiff*, and **Liying Luo**. 2021. "The Contemporary Transformation of American Youth: An Analysis of Changes in the Prevalence of Criminal Activity, 1991-2015." *Criminology* (59)1: 109-136 <https://doi.org/10.1111/1745-9125.12264>
- Lu, Yunmei*, and **Liying Luo**. 2020. "Cohort Variation in U.S. Violent Crime Patterns from 1960 to 2014: An Age-Period-Cohort-Interaction Approach." *Journal of Quantitative Criminology* <https://doi.org/10.1007/s10940-020-09477-3>
- Luo, Liying** and James Hodges. 2020. "The Age-Period-Cohort-Interaction Model for Describing and Investigating Inter-Cohort Deviations and Intra-Cohort Life-Course Dynamics." *Sociological Methods & Research* 50(1): 276-317 <https://doi.org/10.1177/0081175020903348>
- Verdery, Ashton, Kira England*, **Liying Luo**, Katherine McLean, and Shannon Monnat. 2020. "Visualizing Age, Period, and Cohort Patterns of Substance Use in the U.S. Opioid Crisis." *Socius: Sociological Research for a Dynamic World* <https://doi.org/10.1177/2378023120906944>
- Luo, Liying** and James Hodges. 2020. "Constraints in Random Effects Age-Period-Cohort Models." *Sociological Methodology* <https://doi.org/10.1177/0081175020903348>
- Fan, Wen, and **Liying Luo**. 2020. "A Decomposition of Trends in the Infant Mortality Disadvantage Index in the United States: 1983-2010." *Demography* 57(3): 979-1005 <https://doi.org/10.1007/s13524-020-00878-4>
- Luo, Liying**, and James Hodges. 2017. "Block Constraints in Age-Period-Cohort Method with Unequal-Width Intervals." *Sociological Methods & Research* 45 (4): 700-726. <https://doi.org/10.1177/0049124115585359>
- Luo, Liying**, James Hodges, Christopher Winship, and Daniel Powers. 2016. "The Sensitivity of the Intrinsic Estimator to Coding Schemes: A Comment on Yang, Schulhofer-Wohl, Fu, and Land." *American Journal of Sociology* 122(3): 930-961. <https://doi.org/10.1086/689830>
- te Grotenhuis, Manfred, Ben Pelzer, **Liying Luo**, Alexander Schmidt-Catran. 2016. "Alternative Estimates and Predictions of Mortality Trends: A Comment on Masters, Hummer, Powers, Beck, Lin, and Finch." *Demography* 53 (4): 1245-1252. <https://doi.org/10.1007/s13524-016-0476-8>
- Warren, John Robert, **Liying Luo**, Andrew Halpern-Manners, James Raymo, and Alberto Palloni. 2015. "Do Different Methods for Modeling Age-Graded Trajectories Yield Consistent and Valid Results?" *American Journal of Sociology* 120 (6): 1809-1856. <https://doi.org/10.1086/681962>
- Fienberg, Stephen, James Hodges, and **Liying Luo**. 2015. "Letter to the Editor: Comment on Review of *Age-Period-Cohort Analysis: New Models, Methods, and Empirical Applications* by Y. Yang and K.C. Land." *Journal of the American Statistical Association* 110 (509): 457.
- Luo, Liying**. 2013. (Reply) "Paradigm Shift in Age-Period-Cohort Analysis: A Response to Yang and Land, O'Brien, Held and Riebler, and Fienberg." *Demography* 50 (6): 1985-1988. <https://doi.org/10.1007/s13524-013-0263-8>

Luo, Liying. 2013. "Assessing Validity and Application Scope of the Intrinsic Estimator Approach to the Age-Period-Cohort Problem." *Demography* 50 (6): 1945-1967.

<https://doi.org/10.1007/s13524-013-0243-z>

Lead article accompanied with four commentaries and a reply

Manuscripts in Progress

Xu, Jiahui*, and Liying Luo. "apci: an R and Stata Package for Age-Period-Cohort Analysis."

Luo, Liying and John Robert Warren. "Describing and Explaining Age, Period, and Cohort Trends in Americans' Vocabulary Knowledge."

Pescosolido, Bernice, Andrew Halper-Manners, Brea Perry, and Liying Luo. "Is the Tide Turning on the Stigma of Mental Illness? Results from U.S. National Stigma Studies."

Awards and Honors

2019 Butler-Williams Scholar, the National Institute on Aging

2019 Social Sciences Research Institute Fellow, Penn State University

2014 Don Martindale Graduate Student Career Achievement Award, Department of Sociology, University of Minnesota

2013 Outstanding Research Award, Minnesota Population Center, University of Minnesota.

Invited Presentations

2019 "Age, Period, and Cohort Trends in Americans' Vocabulary Knowledge among Immigrants and Non-Immigrants" RC28 Opening Plenary Session, Princeton, NJ

2019 "Women's Labor Force Participation 1990-2018: An Age-Period-Cohort Analysis" Life Course Forum Plenary Address, Beijing, China

Professional Service

2016- Editorial Board, *Sociological Methods & Research*

2019- Editorial Board, *Sociological Methodology*

2019-20 Chair, Clifford Clogg Methods and Statistics Advisory Committee, Department of Sociology & Criminology, Pennsylvania State University

2020 Organizer and Chair, "Methodological Innovations in the Analysis of Life Course Data", PAA

Chair, "Family Context of Intergenerational Mobility", PAA

2015 Discussant, Session 228 "Missing Data and Bayesian Models in Demography", PAA

2014 Discussant, Session 137 "Causal Inference and Experimental Designs", PAA

2013- Occasional reviewer for *American Journal of Sociology*, *Demography*, *American Sociological Review*, *Population Studies*, *Social Forces*, *Sociology of Education*, *PLOS ONE*, *Sociological Perspectives*, *Quality and Quantity*

2014-15 Graduate Student Editorial Board, *Sociology of Education*, ASA

2009-10 Graduate Student Editorial Board, *Contexts*, ASA

2009-10 Coordinator, Global Discussion on Campus, University of Minnesota
2003-04 President, Student Union of Common Wealth, China Foreign Affairs University
2002 Director, Education Promotion Program, China Foreign Affairs University

Professional Affiliations

Population Association of America
International Sociological Association
American Sociological Association
 Methodology Section, Population Section, Aging and the Life Course Section
American Public Health Association

Courses Taught

Multilevel Regression Models, Pennsylvania State University
Intermediate Social Statistics, Pennsylvania State University
Introduction to Sociological Research, University of Delaware