

MARGARET M. WEDEN

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PROFESSIONAL EXPERIENCE:

2018-present Acting Director, RAND Population Research Center, Santa Monica
2018-present Professor, Pardee RAND Graduate School, Santa Monica
2009-present Social Scientist, RAND Corporation, Santa Monica
2007-2009 Associate Social Scientist, RAND Corporation, Santa Monica
2006-2007 Research Fellow, University of California, San Diego
2004-2006 Robert Wood Johnson Health & Society Scholar, University of Wisconsin-Madison

EDUCATION:

2005 Ph.D., Population Dynamics, Johns Hopkins University
2001 M.H.S., Biostatistics, Johns Hopkins University School of Public Health
1996 B.A., Public Policy and International Affairs, Princeton University, Graduated Cum Laude

GRANTS AND FUNDED AWARDS:

Current Research Support

NIH/NICHD (PI: Weden) 9/15/2020-8/31/2022
Assessing Individual, Community, and Financial Factors in Birth Outcomes and Associated Health Disparities \$505,614
The project employs cutting-edge quasi-experimental research methods to evaluate the effect of recent local minimum wage policies on infant health and infant health disparities.

CDC (PI: Acosta/Faherty; Co-Investigator: Weden) 9/23/2019-9/22/2022
Public Health Use of Current Resources and Existing Surveillance Systems to Monitor Mental and Behavioral Health after an Emergency: Turning Data into Action
The project provides guidance on how to leverage existing surveillance systems and resources to monitor behavioral health during and after an emergency.

NIH/NCI (PI: Richardson; Co-Investigator: Weden) 2/6/2019-1/31/2022
Federal School Nutrition Policies, Student Food Insecurity and BMI
The project will employ two nationally representative samples of children, leveraging national policy changes in Healthy Hunger Free Kids Act and the Community Eligibility Provision to better understand how changes in meal nutritional requirements and access to school meals affects children's food security and BMI trajectories.

Completed Research Support

NSF IIS-1546259 (PI: Rendall; Sub-contract PI: Weden) 1/1/2016-12/31/2019
BIGDATA Collaborative Research: IA, Population Reproduction of Poverty at Birth from Surveys, Censuses, and Birth Registrations \$332,059 (subcontract award)

Big Data statistical methods are developed to solve the critical social-science problem of modeling intergenerational social mobility and social reproduction.

DHS/FEMA (PI: Cook; Co-Investigator: Weden) 2/1/2018- 7/1/2019

Puerto Rico Economic & Disaster Recovery Plan

The project will support FEMA to facilitate an accurate depiction of the damage to Puerto Rico's infrastructure systems and assist in the production of inclusive plan to enable a resilient recovery.

Gulf of Mexico Alliance (PI: Finucane; Co-Investigator: Weden) 1/1/2015- 12/31/2019

Consortium for Resilient Gulf Communities

The project will investigate the impact of oil spills on public health including behavioral, socioeconomic, environmental risk assessment, community capacity, and other population health considerations and issues.

NIH/NICHD (PI: Rendall; Sub-contract PI: Weden) 3/1/2017-3/31/2019

Employment, Timing of First Birth, and Child Outcomes

This study investigates the life-course sequencing of women's schooling, employment, and family formation for the cohorts of U.S. women who entered their childbearing and workforce ages before and after the 1990s Welfare reforms, and the relationship of this sequencing to early-childhood poverty.

HHS/ACF/OPRE (PI: Weden) 10/1/2015-2/29/2017

The Impact of Early Care and Education in Child Nutrition, Sedentary Behavior and Obesity by Kindergarten

\$149,997

The project explores whether a novel pooled-survey methodology can be employed to improve inferences about ECE environments in child obesity and related nutritional and physical activity antecedents.

NIH/NIA R01 AG043960 (PI: Shih; Co-Investigator: Weden) 9/01/2012-5/31/2016

Neighborhood Characteristics and Cognitive Health

This project examines the relationship between neighborhood characteristics and the level and change in cognitive function over time in a nationally representative sample of U.S. older adults.

NIH/NICHD: R01 HD061967 (PI: Rendall; Co-Investigator: Weden) 8/01/09-7/31/15

Combined-survey Estimation & Markov-chain Simulation of Childhood Obesity

In this study, we develop statistical and computational methods that combine multiple longitudinal survey datasets to estimate and simulate trajectories of weight status from birth to adolescence.

NIH/NICHD: R03 HD060673 (PI: Weden) 4/01/09 – 3/31/11

Intergenerational Determinants of Youth Smoking Trajectories

\$186,507

This study examines how intergenerational pathways in early life, childhood and adolescence shape tobacco-related determinants of the health and social wellbeing of maturing adolescents and young adults.

NIH/NICHD: R03 HD060673 - S1 (PI: Weden) 9/01/10 – 3/31/11
Supplement to Intergenerational Determinants of Youth Smoking Trajectories \$93,708
The supplement addresses differences by race/ethnicity and by immigrant generation in intergenerational transmission pathways linking maternal and youth smoking trajectories.

Robert Wood Johnson Foundation (PI: Dubowitz; Co-PI: Weden) 2/1/09 - 1/31/11
Mapping the Gaps \$397,849
The goal of this project is to assess whether and how a GIS-based program planning methodology can be employed by local health departments to inform planning efforts so that they more closely align community health needs with public health program resources.

U.S. Social Security Admin (PI: Rendall; Investigator: Weden) 6/26/08 - 6/25/10
Polisim Integration: SS00-06-06111
The goals of this project are to integrate the modules of the Polisim microsimulation model of the U.S. population, maintain and enhance the scientific modeling of the processes, and to provide technical support to module developers.

NIH/NIOSH: R21 OH009320 (PI: Rendall, Co-Investigator: Weden) 2/14/08- 2/13/10
Estimating Differentials in Return to Work after Injury from Two Surveys
This study will apply a novel approach to estimating returns to work using multiple imputation methods to combine the data from two surveys.

NIH/NIA: RAND Center on the Study of Aging (Seed Grant PI: Weden) 2/1/08-7/1/08
Understanding the Role of Early Life Events in Health and Longevity \$50,000
Pilot Project funded under grant 5P30AG012815-14 (PI: Michael Hurd) to the RAND Center for the Study of Aging uses a historical event to study cohort differences in health and aging.

NIH/NICHD: RAND Population Research Center (Seed Grant PI: Weden) 2/1/08-7/1/08
Weight as a Bio-social Filter of the Proximate Determinants of Fertility \$33,784
Pilot Project funded under grant R24 HD41025 (PI: Michael Rendall) to the RAND Population Research Center that studies the relationship between obesity and childbearing.

Robert Wood Johnson Foundation (Seed Grant PI: Weden) 5/1/06 – 8/30/06
U. Wisconsin-Madison Health & Society Program \$17,000
Heterogeneity in Population Health and Mortality over the 20th Century
A theoretical and methodological study of 20th century changes in social inequalities in health.

NIH/NIDA: F31DA015942 (PI: Astone, Student PI: Weden) 10/28/2002 - 8/31/04
Gender, Race, Ethnicity & Smoking Initiation & Cessation \$76,362 (academic support)

This study charted social disparities in smoking and their relationship to employment and work conditions.

PUBLICATIONS:

40. Weden, M.M., Parks, V., Parker, A.M., Drakeford, L., Ramchand, R. (forthcoming) Health Disparities in the U.S. Gulf Coast: The Interplay of Environmental Disaster, Material Loss, and Residential Segregation. *Environmental Justice*.
39. Shariff-Marco, S., DeRouen, M.C., Yang, J., Jain, J., **Weden, M.M.**, Gomez, S.L. (forthcoming). Neighborhood archetypes and breast cancer survival in California. *Annals of Epidemiology*.
38. **Weden MM**, Shih RA, Kabeto MU, Langa, K.M. (2018). "Secular Trends in Cognitive Aging of U.S. Rural and Urban Older Adults, 2000 to 2010." *American Journal of Preventive Medicine*.54(2):164-172.
37. **Weden, M.M.**, Miles, J.N.V, Friedman, E., Escarce, J., Peterson, C., Langa, K.M. Shih, R.A. (2017) "The Hispanic Paradox: Race/ethnicity and Nativity, Immigrant Enclave Residence and Cognitive Impairment among Older US Adults." *Journal of the American Geriatrics Society*. 65(5):1085-1091.
36. Friedman, E.M., Shih, R.A., Slaughter, M.E., **Weden, M.M.**, Cagney, K.A. (2017) "Neighborhood Age Structure and Cognitive Function in a Nationally-Representative Sample of Older Adults in the U.S." *Social Science & Medicine*. 174:149-158.
35. Friedman, E.M., **Weden, M.M.**, Shih, R., Kovalchik, S., Singh, R., Escarce, J. (2016) "Functioning, Forgetting, or Failing Health: Which Factors are Associated with Community-Based Move among Older Adults?" *Journal of Gerontology: Social Science*.71(6):1120-1130.
34. Miles, J.N.†, **Weden, M.M.** † (†joint-first authors), (2016) Lavery, D., Escarce, J.J., Cagney, K.A., Shih, R.A. "Constructing a Time-Invariant Measure of the Socio-economic Status of U.S. Census tracts." *Journal of Urban Health*. 93(1), 213-232.
33. Baker, E.H., Rendall, M.S., **Weden, M.M.** (2015) "Epidemiological Paradox or Immigrant Vulnerability? Obesity Among Young Children of Immigrants." *Demography*. 52(4):1295-1320.
32. **Weden, M.M.**, Peterson, C.E., Shih, R.A., Miles, J.N. (2015) "Evaluating Linearly Interpolated Intercensal Estimates of Demographic and Socioeconomic Characteristics of U.S. Counties and Census Tracts 2001-2009." *Population Research and Policy Review*. 34(4):541-559.
31. Rendall, M.S., **Weden, M.M.**, Lau, C., Brownell, P., Nazarov, Z., Fernandes, M. (2014) "Evaluation of Bias in Survey Estimates of Early Childhood Obesity from Parent-reported Heights and Weights." *American Journal of Public Health*. 104(7):1255-1262.
30. Rendall, M.S., Ghosh-Dastidar, B., **Weden, M.M.**, Baker, E.H., Nazarov, Z. (2013) "Multiple Imputation for Combined-Survey Estimation with Incomplete Regressors in One But Not Both Surveys." *Sociological Methods and Research*. 42(4):483-530.
29. **Weden, M.M.**, Brownell, P., Rendall, M.S., Lau, C., Fernandes, M., Nazarov, Z. (2013) "Parent-reported Height and Weight as Sources of Bias in Survey

- Estimates of Childhood Obesity." *American Journal of Epidemiology*. 178(3):461-473.
28. Frisco, M.L., **Weden, M.M.** (2013). "Early Adult Obesity and U.S. Women's Lifetime Childbearing Experiences." *Journal of Marriage and Family*. 75(4):920-932.
 27. Link, B.G., Carpiano, R.M., **Weden, M.M.** (2013) "Can Honorific Awards Give Us Clues About the Connection Between Socioeconomic Status and Mortality?" *American Sociological Review*. 78(2):192-212.
 26. Rendall, M.M., **Weden, M.M.**, Fernandez, M. *, Vaynman, I. * (2012) "Hispanic and Black Children's Paths to High Adolescent Obesity Prevalence." *Pediatric Obesity*. 7(6):423-435.
 25. **Weden, M.M.**, Brownell, P., Rendall, M.S. (2012) "Prenatal, Perinatal, Early-life, and Sociodemographic Factors Underlying Racial Differences in the Likelihood of High Body Mass Index in Early Childhood." *American Journal of Public Health*. 102(11):2057-2067.
 24. Miles, J.N.V., **Weden, M.M.** (2012) "Is the Intergenerational Transmission of Smoking from Mother to Child Mediated by Children's Behavior Problems?" *Nicotine & Tobacco Research*. 14(9):1012-1018.
 23. Frisco, M.L.F, **Weden, M.M.**, Lippert, A.M., Burnett, K.D. (2012) "The Multidimensional Relationship between Early Adult Body Weight and Women's Childbearing Experiences." *Social Science & Medicine*. 74(11)1703-1711.
 22. **Weden, M.M.**, Miles, J.M.V. (2012) "Intergenerational Relationships Between the Smoking Patterns of a Population-Representative Sample of US Mothers and the Smoking Trajectories of Their Children." *American Journal of Public Health*. 102(4):723-731.
 21. Dubowitz, T., Williams, M., Steiner, E.D., **Weden, M.M.**, Miyashiro, L., Jacobson, D., Lurie, N. (2011) "Using Geographic Information Systems to Match Local Health Needs with Public Health Services and Programs." *American Journal of Public Health*. 101(9):1664-1665.
 20. Rendall, M.S., **Weden, M.M.**, Favreault, M.M., Waldron, H. (2011) "The Protective Effect of Marriage for Survival: A Review and Update." *Demography*. 48(2):481-506.
 19. **Weden, M.M.**, Bird, C.E., Escarce, J.E., Lurie, N. (2011) "Neighborhood archetypes for population health research: Is there no place like home?" *Health & Place*. 17:289-299.
 18. Bird, C.E., Seeman, T., Escarce, J.J., Basurto-Davila, R., Finch, B.K., Dubowitz, T., Heron, M. Hale, L., Merkin, S.S, **Weden, M.M.**, Lurie, N. (2010) "Neighborhood Socioeconomic Status and Biological "Wear & Tear" in a Nationally Representative Sample of U.S. Adults." *Journal of Epidemiology and Community Health*. 64(10)860-865.
 17. **Weden, M.M.**, Carpiano, R.M., Robert, S.A. (2008) "Subjective and objective neighborhood characteristics and adult health." *Social Science & Medicine*. 66(6):1256-1270.
 16. **Weden, M.M.**, Brown, R.A. (2008) "Historical and life course timing of the male mortality disadvantage in Europe: Epidemiological transitions, evolution, and behavior." *Social Biology*. 53(1-2):61-79.

15. **Weden, M.M.**, Kimbro, R. (2007) "Racial/Ethnic Differences in the Timing of First Marriage and Smoking Cessation." *Journal of Marriage and the Family*. 69(3):878-887.
14. **Weden, M.M.**, Astone, N.M., Bishai, D. (2006) "Racial, Ethnic, and Gender Differences in Smoking Cessation Associated with Employment and Joblessness through Young Adulthood in the U.S.." *Social Science & Medicine*. 62(2): 303-316.
13. **Weden, M.M.**, Zabin, L.S. (2005) "Gender and Ethnic Differences in the Co-occurrence of Adolescent Risk Behaviors." *Ethnicity & Health*. 10(3): 221-241.

TECHNICAL REPORTS, BOOK CHAPTERS AND PUBLISHED ABSTRACTS:

12. Towe, V.L., Petrun-Sayers, E.L., Chan, E.W., Kim, Tom, A., Chan, W.Y., Marquis, J.P., Robbins, M., Saum-Manning, L., Weden, M.M., Payne, L.A. (2020). Community Planning and Capacity Building in Puerto Rico after Hurricane Maria. Predisaster Condition, Hurricane Damage, and Courses of Action. *RAND Report RR-2598-DHS*.
11. DeRouen, M.C., **Weden, M.M.**, Yang, J., Jain, J., Gomez, S.L., Shariff-Marco, S. (2019) "Neighborhoods and Breast Cancer Survival: The Case for an Archetype Approach." *Geospatial Approaches to Energy Balance and Breast Cancer*. Berrigan, D, and Berger, N.A. (Eds.) Springer. Cham, Switzerland. 221-253.
10. Peterson, C.E., **Weden, M.M.**, Shih, R.A., 2017. "Demographic, Social, Economic, and Housing Characteristics: Development of a U.S. Contextual Database of 1990-2010 Measures". *RAND Report RR-1741-NIH*.
9. Derose, K.P.; Felician, M., **Weden, M.M.** (2015) "Understanding the Upstream Social Determinants of Health." *RAND: WR-1096-RC*.
8. Williams, M.V., **Weden, M.**, Jacobson, D., Miyashiro, L., Steiner, E., Leuschner, K., and Dubowitz, T. (2011). "Mapping the Gaps: Ideas for Using GIS to Enhance Local Health Department Priority Setting and Program Planning." *RAND: TR-1146-RWJ/TQF*.
7. Robert, S.A., Cagney, K., and **Weden, M.M.** (2010). "Life Course Perspectives on the Built Environment and Health." *Handbook of Medical Sociology. Edition 6*. Ed. Chloe E. Bird, Peter Conrad, Allen M. Fremont, and Stefan Timmerman. New Jersey: Prentice Hall. Pp. 124-143.
6. **Weden, M.M.**, Bird, C.E., Escarce, J.J., Nicole, L. (2010). Technical Detail and Appendices for a Study of Neighborhood Archetypes for Population Health Research. *RAND: WR-805*.
5. Ringel, J., Chandra, A., Williams, M., Ricci, K., Felton, A., Adamson, D., **Weden, M.**, and Huang, M. (2009). "Enhancing Public Health Emergency Preparedness for Special Needs Populations: A Toolkit for State and Local Planning and Response." *RAND: TR-681-DHHS*.
4. **Weden, M.M.**, Vargas, R., Setodji, C., Norris, K. 2008. "Determinants of Racial/Ethnic Disparities, the Contribution of Disparities in Incidence, Transplantation, and Survival. *Journal of General Internal Medicine*. 23:277-278.
3. **Weden, M.M.** (2007) Twentieth Century U.S. Racial Inequalities in Mortality. *RAND: WR-497*.

2. **Weden, M.M.** (2007) "Gender Differences and Health" and "Family Composition". In: *Encyclopedia of Public Health*. Ed. Wilhelm Kirch. Berlin: Springer-Verlag.
1. **Weden, M.M.** (2007) "Family Composition and Health". In: *Encyclopedia of Public Health*. Ed. Wilhelm Kirch. Berlin: Springer-Verlag.

SOFTWARE PROGRAMS AND INTERNET-TOOLS:

- "Special Needs Populations Mapping for Public Health Preparedness"
<http://www.rand.org/health/projects/special-needs-populations-mapping.html>
- Weden, M. M. (2005) "Multistate Life Table Analysis." Programs, Examples and Supporting Documentation for *lxpct_2* from Stata at Research Papers in Economics:
<http://ideas.repec.org/c/boc/bocode/s453001.html>
- Weden, M.M. (2003) "Promoting Interdisciplinary Public Health Research Using Demographic Methods with Stata Statistical Software."
<https://www.jhsph.edu/research/centers-and-institutes/center-for-adolescent-health/academic-research/center-projects/archived-center-projects/>

TEACHING

Pardee RAND Graduate School

Fall 2018-2019 Introduction to Demography (with Michael Pollard)

Johns Hopkins University Bloomberg School of Public Health

- 2001 *Head Teaching Assistant*, Population Change (Instructors: Nan Astone, Ken Hill), Department of Population and Family Health Sciences
- 2000 *Teaching Assistant*, Population Change (Instructors: Nan Astone, Ken Hill), Department of Population and Family Health Sciences
- 2000-2001 *Teaching Assistant*, Biostatistics I-III (Instructors: Scott Zeger, Marie Diener-West), Department of Biostatistics
- 1999-2000 *Teaching Assistant*, Demography I, II (Instructor: Stan Becker), Department of Population and Family Health Sciences

Guest Lectures

- 2010 "Racial and Ethnic Disparities in the Determinants and Trajectories of Childhood Obesity", Policy Seminar, Pardee RAND Graduate School
- 2006 "Sociological Perspectives on Aging". Gerontology 601: Theory in Gerontology, San Diego State University
- 2004 "Multistate Life Table Analysis". Intermediate Demographic Methods, Johns Hopkins University Bloomberg School of Public Health

PROFESSIONAL SERVICE:

National

2016-2019 Associate Editor, *Journal of Health and Social Behavior*

Ongoing	Ad-hoc reviewer (e.g., for <i>Demography</i> , <i>American Journal of Epidemiology</i> , <i>American Journal of Public Health</i> , <i>Social Science & Medicine</i>)
2016	Ad-hoc Reviewer, NICHD/NIH Special Emphasis Panel: Archiving and Documenting Child Health and Human Development Data Sets
2016	Discussant, 2016 Annual Meeting of the Population Association of America
2013-2014	Session Organizer, 2014 Annual Meeting of the Population Association of America

RAND Corporation

2018-Present	Acting Director, Population Research Center
2019-Present	Manager, Research Collaboration Core, Center for the Study of Aging
2016-2018	Associate Director, Population Research Center
2015-2016	Acting Director, Population Research Center
2014-2016	Steering Committee, Social Determinants of Health Interest Group
2012-2015	Recruitment Committee, Economics, Sociology, and Statistics Sociology
2009-2015	Manager, Data & Information Core, Population Research Center
2009-2105	Campus and Conference Recruiting Program
2008-2012	Labor & Population Recruitment Committee
2008-2012	Steering Committee, Population Sciences Postdoctoral Training Program

Professional Memberships

Population Association of America
American Sociological Association
American Public Health Association