
BIOGRAPHICAL SKETCH

NAME: Daniel A. Powers

eRA COMMONS USER NAME: dapowers

POSITION TITLE: Professor of Sociology

EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE	Completion Date MM/YYYY	FIELD OF STUDY
University of Wisconsin, Madison, WI	BA	05/1976	Anthopology/Ibero-American Std.
Universty of Wisconsin, Madison, WI	MS	11/1984	Rural Sociology
University of Wisconsin, Madison, WI	PhD	08/1981	Sociology

A. Personal Statement

I am a demographer with substantive interests in the areas of infant mortality, fertility and maternal health. My research falls under the PRC's primary research areas of Population Health and Reproductive Health. During the next five years I will continue to investigate the Hispanic infant mortality paradox with a focus on mothers over the age of 25. I will further examine racial/ethnic heterogeneity in the maternal educational gradient in IMR and its relation to the Hispanic paradox. I will also examine race/ethnic differences in cause-specific infant mortality, and extend earlier work on racial/ethnic differences in change in cause-specific IMR to cover a 30-year period. This work will be carried out under R01 HD082106-01 (R. Rogers, PI). I am involved in working groups in the PRC under RSGT-11-010-01-CPPB (C. Cubbin, PI) and will participate in a new working group with Dr. Toni Falbo to focus on low fertility in East Asia.

B. Positions and Honors**Positions and Employment**

1991-1995	Lecturer, Department of Sociology, The University of Texas at Austin, TX
1991-Present	Faculty Research Associate, Population Research Center, The University of Texas at Austin, TX
1995-1998	Assistant Professor, Department of Sociology, The University of Texas at Austin, TX
1998-2011	Associate Professor, Department of Sociology, The University of Texas at Austin, TX
2011-Present	Professor, Department of Sociology, The University of Texas at Austin, TX

Honors, Other Experience, and Professional Memberships

1996	Summer Research Assignment, <i>Socioeconomic Effects on the Timing and Sequencing of Employment and Enrollment Transitions in Early Adulthood</i> , Faculty Development Program, University of Texas at Austin
1998	Recipient, Dean's Fellowship, College of Liberal Arts, The University of Texas at Austin
1999	Instructional Technology Award for Instructional Technology Development, FastTex Program, Center for Instructional Technologies, The University of Texas at Austin
1999	Grant for Developing Web-Based Statistical Inference Tools for Sociology Methods and Statistics Courses, Instructional Technology Services, The University of Texas at Austin
1997-2000	Editor, <i>The Sociological Methodologist</i> , Newsletter for ASR Methodological Group
1997-Present	Editorial Board, <i>Sociological Methods and Research</i>
2008-Present	Editorial Board, <i>Sociological Methodology</i>
2008	Recipient, Deans Fellowship, College of Liberal Arts, The University of Texas at Austin
2011	Big XII Fellowship
2011-Present	Editorial Board, <i>Population Research and Policy Review</i>
Present	Member: American Sociological Association; Population Association of America

C. Contributions to Science

1. I have substantive interests in health disparities, with a specific focus on the Hispanic infant mortality paradox and race/ethnic comparisons of change in infant mortality over time. Much of this work integrates

methodological interests in survival modeling, multivariate decomposition, and other statistical methods. My current research revisits the Hispanic paradox in infant mortality and documents an erosion of the Mexican-origin infant survival advantage relative to non-Hispanic whites with increasing maternal age. This research draws on weathering and acculturation perspectives. My research on infant mortality and birth outcomes was carried out while funded as a co-PI over the past decade. My major specific contributions are the examination racial/ethnic differences in birth outcomes by maternal age as well as the decomposition of race/ethnic/nativity differences in infant mortality in the context of the Hispanic paradox. In addition to the focus on the Hispanic paradox, I have investigated race (black-white) differences in the sources of change in infant mortality over time by considering mother's age, maternal birth cohort, and infant's year of birth as three interrelated components of temporal change that can be identified using age-period-cohort models.

Powers, Daniel A. (2016). "Erosion of Advantage: Decomposing Racial/Ethnic Differences in Infant Mortality Rates among Older Non-Hispanic White and Mexican-Origin Mothers." *Population Research and Policy Review*, 35: 23-48, doi: 10.1007/s11113-015-9370-0.

Powers, Daniel A. (2013). "Paradox Revisited: A Further Investigation of Racial/Ethnic Differences in Infant Mortality by Maternal Age." *Demography*, 50: 495-520, doi:10.1007/s13524-012-0152-6, PMID: 23055238.

Powers, Daniel A. (2013). "Black-White Differences in Maternal Age, Maternal Birth Cohort, and Period on Infant Mortality in the U.S. 1983-2002." *Social Science Research*, 42: 1033-1045, doi: 10.1016/j.ssrresearch.2013, PMID: 23721672.

Powers, Daniel A. and Seung-eun Song (2009). "Absolute Change in Cause Specific Infant Mortality in the U.S.: 1983-2002," *Population Research and Policy Review*, 28: 817-851.

2. I have made statistical/methodological contributions in the areas of survival analysis and multivariate decomposition, age-period-cohort analysis, as well as general methods for categorical data analysis. This includes expositional papers on new methods of decomposition for nonlinear multivariate models, methods for obtaining covariate adjusted life tables, methods for decomposing differences in hazard rates, as well as contributing statistical software and specialized algorithms for demographic analysis to archives and repositories.

Xu, Minle, and **Daniel A. Powers** (2016). "Bayesian Ridge Estimation of Age-Period-Cohort Models," Pp. 337-359, Robert Schoen (Ed.), *Dynamic Demographic Analysis*. New York: Springer

von Hippel, Paul T. and **Daniel A. Powers** (2014/2015) "-bme- and -rpme: Stata Modules for Implementing Bounded Midpoint and Robust Pareto Estimators for Binned Data." *Statistical Software Components*, Department of Economics, Boston College.

Powers, Daniel A., Hirotoshi Yoshioka, and Myeong-Su Yun. (2011). "mvdcmp: Multivariate Decomposition for Nonlinear Response Models." *The Stata Journal*, 11: 556-576.

Powers, Daniel A. and Yu Xie (2008) *Statistical Methods for Categorical Data Analysis*, 2nd Edition. London: Emerald.

3. I also collaborate on research on life course and cohort change in adult mortality and obesity.

Reither, Eric N., Ryan K. Masters, Y. Claire Yang, **Daniel A. Powers**, Hui Zheng, and Kenneth C. Land. (2015). "Should Age-Period-Cohort Studies Return to the Methodologies of the 1970s?" *Social Science & Medicine* 128: 331-333, PMID: 25617033.

Masters, Ryan K., Robert A. Hummer, **Daniel A. Powers**, Audrey Beck, Shih-Fan Lin, Brian K. Finch (2014) "Long-Term Trends in Adult Mortality for U.S. Blacks and Whites: An Examination of Period- and Cohort-Based Changes," *Demography*, 51: 2047-2073, PMID: 25403151.

Masters, Ryan K., Eric Reither, **Daniel A. Powers**, Y. Claire Yang, Andrew Burger, and Bruce Link (2013). "The Impact of Obesity on U.S. Mortality Levels: The Importance of Age and Cohort Factors in Population Estimates," *American Journal of Public Health*, 103: 1895-1901, PMID 23948004.

Masters, Ryan K., **Daniel A. Powers** and Bruce Link (2013). "Obesity and Mortality Risk over the Life Course." *American Journal of Epidemiology*, 177: 431-442, PMID: 23380043.

D. Research Support

Ongoing Research Support

R01HD082106 (R. Rogers, PI)

09/01/15-08/31/20

National Institute of Child Health and Human Development
Early Life Mortality in the United States

This project aims to describe and analyze social demographic differences in early life mortality in the United States, with a focus on changes over the past 25 years.

Role: Co-Investigator/Consultant

Responsibilities: Advisor on multiple aspects of statistical modeling and contributor to the sub-area of infant mortality,

Grant #5123 (J.E. Potter, PI)

09/01/16-08/31/19

Anonymous Foundation Grant

Evaluating the Impact of Reproductive Health Legislation in Texas

This project will evaluate the impact of upcoming changes to family planning and abortion access in Texas. A key upcoming change for family planning is the 2016 consolidation of the Expanded Primary Health Care grant program (EPHC), established in 2013, with the Texas Women's Health Program.

Role: Consultant

Responsibilities: Advisor on multiple aspects of statistical modeling and contributor on published research.

R01AG047106-01A1 (Y. Jang, PI)

05/15/15-04/30/20

Limited English Proficiency, Health, and Healthcare among Older Immigrants

This proposal investigates how social connectedness and neighborhood/community characteristics (e.g., ethnic density, health service environments in the neighborhood) influence the link between LEP and health/healthcare. We used Korean American elders as the target group

Role: Co-Investigator

Responsibilities: Advisor on multiple aspects of statistical modeling and contributor to published research.

Grant #3862 (J.E. Potter, PI)

09/01/13-02/28/17

Anonymous Foundation Grant

Evaluating the Impact of the Reproductive Health Legislation Enacted by the 83rd Texas Legislature

This project seeks to evaluate the impact of the legislative changes on Texas women and family planning and abortion care providers.

Role: Consultant

Responsibilities: Advisor on multiple aspects of statistical modeling and contributor on published research.

Completed Research Support

RSGT-11-010-01-CPPB (C. Cubbin, PI)

01/01/11-12/31/15

American Cancer Society

Environmental Effects on Disparities in Smoking and Obesity among Women

This study will: 1) describe the distribution of built environment characteristics by an innovative, comprehensive measure of neighborhood SES and by individual race/ethnicity (Asian, Black, foreign-born Latina, U.S.-born Latina, White) and SES (poverty income ratio, education); 2) examine whether there is an overall and dose-response relationship between built environment characteristics and healthy DH and PA among women and their children; and 3) examine interactions (differential effects across subgroups) between built environment characteristics and individual race/ethnicity and SES. To fulfill these aims, the proposed study will use a prospective, multilevel design using data from the 2002-2007 Maternal and Infant Health Assessment (MIHA)

Role: Co-Investigator

Responsibilities: Advisor on multiple aspects of statistical modeling and contributor on published research.

Grant #3673 (J.E. Potter, PI)

09/01/11-08/31/16

Anonymous Foundation

Texas Policy Evaluation Project

This project seeks to evaluate the impact of the legislative changes on Texas women and family planning providers.

Role: Consultant

Responsibilities: Advisor on multiple aspects of statistical modeling and contributor on published research.