

## Andrea Tilstra

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Department of Sociology  
327 UCB  
University of Colorado  
Boulder, CO 80309-0327

Population Program  
Institute of Behavioral Science  
483 UCB  
University of Colorado  
Boulder, CO 80309-0483

### EDUCATION

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- 2021      Doctor of Philosophy, Sociology (*expected May*)  
Dissertation: “*Social and Institutional Factors Driving Trends in U.S. Obstetric Interventions*”  
Committee: Ryan K. Masters (co-chair), Richard G. Rogers (co-chair), Jason Boardman,  
Amanda Stevenson, and Kate Coleman-Minahan (College of Nursing)  
Graduate Certificate in Demography  
Graduate Certificate in Quantitative Methods in Behavioral Science  
Comprehensive Examinations: Demography; Quantitative Methods; Health Disparities  
*University of Colorado - Boulder, Boulder, CO*
- 2014      Bachelor of Arts, Sociology and Communication, *Cum Laude*  
Minor: Economics  
*University of Pittsburgh, Pittsburgh, PA*

### ACADEMIC INTERESTS

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Medical sociology; social demography; population health; health disparities; quantitative methods; obstetric interventions

### PEER-REVIEWED PUBLICATIONS

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Rogers, Richard G., Robert A. Hummer, **Andrea M. Tilstra**, Elizabeth M. Lawrence, and Stefanie Mollborn. (2020) “Family Structure and Early Life Mortality in the United States.” *Journal of Marriage and Family* 82(4):1159-1177. DOI: <https://doi.org/10.1111/jomf.12674>.

**Tilstra, Andrea M.**, and Ryan K. Masters. (2020) “Worth the Weight? Recent Trends in Obstetric Practices, Gestational Age, and U.S. Birth Weight.” *Demography* 57:99–121. DOI: <https://doi.org/10.1007/s13524-019-00843-w>.

Braudt, David B., Elizabeth M. Lawrence, **Andrea M. Tilstra**, Robert A. Hummer, and Richard G. Rogers. (2019) “Associations between Early Life Mortality and Socioeconomic Status in the 21<sup>st</sup> Century United States.” *Maternal and Child Health Journal* 23(10): 1382-1391. DOI: <https://doi.org/10.1007/s10995-019-02799-0>.

**Tilstra, Andrea M.** (2018) “Estimating Educational Differences in Low-Risk Cesarean Section Delivery: A Multilevel Modeling Approach.” *Population Research and Policy Review* 37(1): 117-135. DOI: <https://doi.org/10.1007/s11113-017-9452-2>.

Masters, Ryan K., **Andrea M. Tilstra**, and Daniel H. Simon. (2018) “Explaining Recent Mortality Trends among Younger and Middle Aged White Americans.” *International Journal of Epidemiology* 47(1): 81-88. DOI: <https://doi.org/10.1093/ije/dyx127>.

Rogers, Richard G., Elizabeth M. Lawrence, Robert A. Hummer, and **Andrea M. Tilstra**. (2017) “Racial/Ethnic Differences in Early Life Mortality in the United States.” *Biodemography and Social Biology* 63(3): 189-205. DOI: <http://dx.doi.org/10.1080/19485565.2017.1281100>.

Masters, Ryan K., **Andrea M. Tilstra**, and Daniel H. Simon. (2017) “Mortality from Suicide, Chronic Liver Disease, and Drug Poisonings among Middle-Aged U.S. White Men and Women, 1980-2013.” *Biodemography and Social Biology* 63(1): 31-37. DOI: <http://dx.doi.org/10.1080/19485565.2016.1248892>.

#### MANUSCRIPTS UNDER REVIEW

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**Tilstra, Andrea M.**, Daniel H. Simon, and Ryan K. Masters. “Drugs, Obesity, and the Great Recession: Recent Mortality Trends among Younger and Middle-aged U.S. Black and White Men and Women.” Under review.

#### MANUSCRIPTS IN PROGRESS

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**Tilstra, Andrea M.**, Iliya Gutin, Nathan Dollar, Richard G. Rogers, and Robert A. Hummer. “‘Outside the Skin’: The Persistence of Racial Disparities in Early Life Mortality.”

Rogers, Richard G., Tara K. Streng Schroeter, **Andrea M. Tilstra**. “Adverse Childhood Experiences and Child Health in the United States.”

Masters, Ryan K., **Andrea M. Tilstra**, Zachary A. Cramer, and Kate Coleman-Minahan. “Changes in Obstetric Practices and Gestational Age Distributions of First-birth Singletons Born to Black, Latina, and White Women in U.S. States, 1990-2015.”

#### RESEARCH EXPERIENCE

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2020-present Graduate Research Assistant for Drs. Jane Menken and Brian Houle, CUPC and Australian National University

2015-present Graduate Research Assistant for Dr. Ryan Masters, CUPC

2015-2019 Graduate Research Assistant for Dr. Richard Rogers, CUPC

2018-2019 Graduate Research Assistant for Dr. Lori Hunter, CUPC

Graduate Research Assistant for Drs. Edward Telles and Christina Sue, University of California Santa Barbara and CU-Boulder

- 2016-2017 Graduate Research Assistant for Drs. David Pyrooz and Scott Decker, CUPC and Arizona State University
- 2016 Graduate Research Assistant for Dr. Jason Boardman, CUPC

## TEACHING EXPERIENCE

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### Instructor of Record

*Sociology Department, University of Colorado – Boulder*

2020 SOCY 4051: Social Inequalities in Health (Summer A Term)

### Graduate Teaching Assistant

*Sociology Department, University of Colorado – Boulder*

- 2019 SOCY 2061: Introduction to Social Statistics (Undergraduate) (Fall); Instructor: Dr. Jason Boardman  
 \*Winner of Wilson Outstanding Graduate Teaching Assistant Award  
 SOCY 1001: Introduction to Sociology (Summer & Fall; Grader); Instructor: Dr. Tim Wadsworth  
 SOCY 2061: Introduction to Social Statistics (Undergraduate) (Spring); Instructor: Dr. Ryan Masters
- 2018 SOCY 5111: Data 1 (Graduate Statistics) (Spring); Instructor: Dr. Jason Boardman
- 2015 SOCY 1001: Introduction to Sociology (Spring); Instructor: Dr. Lori Hunter
- 2014 SOCY 1016: Sex, Gender, and Society I (Fall); Instructor: Dr. Sanyu Mojola

### Occasional Guest Lecturer

*Sociology Department, University of Colorado – Boulder*

SOCY 2061: Introduction to Social Statistics

SOCY 3052: Medical Sociology

### Invited Guest Lectures

*Sociology Department, University of Colorado – Boulder*

- 2019 “Medicalization of Birth and the Use of Cesarean Deliveries.” September 16, 2019; SOCY 3002: Population and Society.  
 “Medicalization of Birth.” July 25, 2019; SOCY 4052: Social Inequalities in Health.
- 2018 “How to Approach and Conduct Social Research.” July 24, 2018; SOCY 1001: Introduction to Sociology.

## SELECT CONFERENCE PRESENTATIONS

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- 2020 **Tilstra, Andrea M.**, Ryan K. Masters, Zachary Cramer. “Spatial Differences in U.S. Obstetric Practices and the Consequences for Birth Weight.” Poster to be presented at Population Association of America annual meeting, Washington DC.  
 \*Cancelled because of COVID-19.

**Tilstra, Andrea M.** “Risk, Medicalization, and Obstetric Interventions: Explaining the Rising Use of Cesarean Deliveries and Induction of Labor.” Presented in virtual panel session on Health Policy: Fascinating Research at American Sociological Association annual meeting.

**Tilstra, Andrea M.**, Ryan K. Masters, and Zachary Cramer. “State and Race/Ethnic Variation in Shifting Gestational Age Distributions.” To be presented in virtual panel session on Context, Structural Racism, and Birth Outcomes at the Interdisciplinary Association for Population Health Sciences annual meeting.

- 2019 **Tilstra, Andrea M.** and Ryan K. Masters. October 2, 2019. “Race/Ethnic Differences in Obstetric Interventions, Gestational Age, and U.S. Birth Weight.” Poster presented at the Annual Conference for Interdisciplinary Association for Population Health Sciences Meeting, Seattle, WA.
- Tilstra, Andrea M.**, Iliya Gutin, Nathan Dollar, Richard G. Rogers, and Robert A. Hummer. “‘Outside the Skin’: The Persistence of Racial Disparities in Early Life Mortality.” Presented in Roundtable at American Sociological Association annual meeting, New York City, NY.
- Tilstra, Andrea M.**, Ryan K. Masters, and Daniel H. Simon. April 11, 2019. “US Black-White Mortality Trends Complicate the White ‘Deaths of Despair’ Narrative.” Presented in panel session “Deaths and Diseases of Despair” at the Population Association of America annual meeting, Austin, TX.
- Tilstra, Andrea M.**, Iliya Gutin, Nathan Dollar, Richard G. Rogers, and Robert A. Hummer. April 12, 2019. “‘Outside the Skin’: The Persistence of Racial Disparities in Early Life Mortality.” Presented in panel session on Determinants of Adolescent Health and Mortality at the Population Association of America annual meeting, Austin, TX.
- 2018 **Tilstra, Andrea M.**, Iliya Gutin, Nathan Dollar, Richard G. Rogers, and Robert A. Hummer. October 11, 2018. “Race as a Fundamental Cause of Early Life Mortality in the United States, 1990-2014.” Presented in session on Mortality Causes and Patterns at the Southern Demographic Association annual meeting, Durham, NC.
- Tilstra, Andrea M.** and Ryan K. Masters. April 26, 2018. “Explaining Recent Trends in U.S. Birth Weight: The Role of C-Sections and Inductions.” Presented in session on Child Health Disparities At Birth and In the First Year of Life at the Population Association of America annual meeting, Denver, CO.
- 2017 **Tilstra, Andrea M.** October 2, 2017. “Estimating Educational Differences in Low-Risk Cesarean Section Delivery: A Multilevel Modeling Approach.” Poster presented at the Annual Conference for Interdisciplinary Association for Population Health Sciences Meeting, Austin, TX.
- Tilstra, Andrea M.** August 12, 2017. “The County or The Mother?: A Multilevel Modeling Approach to Understanding Low-Risk Caesarean Section Delivery.” Roundtable presented at the American Sociological Association annual meeting, Montreal, Canada.
- Tilstra, Andrea M.** April 28, 2017. “The Contextual Effects of County-Level SES on the Probability of Low-Risk Caesarean Section Delivery.” Presented in session on Contextual Effects on Reproductive Health and Fertility at the Population Association of America annual meeting, Chicago, IL.
- 2016 **Tilstra, Andrea M.** and Ryan K. Masters. April 1, 2016. “A Puzzle, a Success, or a Data Artifact?: Explaining the Recent Decline in U.S. Birth Weights.” Poster presented at the Population Association of America annual meeting, Washington, D.C.
- 2015 **Tilstra, Andrea M.**, Richard G. Rogers, Robert A. Hummer, and Elizabeth M. Lawrence. October 15, 2015. “Family Structure and Early Life Mortality in the United States.” Presented at the Southern Demographic Association annual meeting, San Antonio, TX.

#### INVITED TALKS & PANELS

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- 2018 “Family Structure and Early Life Mortality.” October 24, 2018; *speaker*; Rocky Mountain Research Data Center: Steering Committee Meeting

## HONORS AND AWARDS

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2020	Graduate School Dissertation Completion Fellowship, University of Colorado-Boulder	\$13,000
	Wilson Outstanding Graduate Teaching Assistant Award, Sociology Department, University of Colorado-Boulder	\$500
2019	Summer Graduate School Fellowship, University of Colorado-Boulder	\$6,000
2018	Funded Trainee, Berkeley Formal Demography Workshop (Special Topic: Mortality), University of California Berkeley	
	Research Funding Award, Sociology Department, University of Colorado-Boulder	\$500
	Research Funding Award, Institute of Behavioral Science, University of Colorado-Boulder	\$100
2017	First Place, Poster Award, Graduate Research Symposium, Institute of Behavioral Science	\$100
	Travel Grant, United Government of Graduate Students, University of Colorado-Boulder	\$300
	Research Funding Award, Sociology Department, University of Colorado-Boulder	\$500
	• Used to fund interviews for “Investigating the Institutional and Cultural Factors Behind a Stable U.S. C-Section Rate” Project, with Jessica Harrison	
	Research Funding Award, Institute of Behavioral Science, University of Colorado-Boulder	\$500
2016	Second Place, Poster Award, Graduate Research Symposium, Institute of Behavioral Science	
	Methodological Training Funding, Sociology Department, University of Colorado-Boulder	\$2,240
	• Used to attend ICPSR Summer Session II (Categorical Data Analysis; Longitudinal Analysis)	
	Methodological Training Funding, Computing and Research Services, Institute of Behavioral Science	\$660
	• Used to attend ICPSR Summer Session II (Categorical Data Analysis; Longitudinal Analysis)	
	Research Funding Award, Sociology Department, University of Colorado-Boulder	\$500
2015	Methodological Training Funding, Sociology Department, University of Colorado-Boulder	\$1,300
	• Used to attend ICPSR Survival Analysis, Event History Modeling, and Duration Analysis	
	Learning Community Fellowship on Retention in Undergraduate Statistics Courses, Teaching Institute for Graduate Education Research (Tiger ROAR), University of Colorado-Boulder	\$500

## SERVICE

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### *NATIONAL*

Session presider at professional meetings:

- Population Association of America. 2017. Session on: “Improving Health and Mortality Measures.”
- Population Association of America. 2017. Session on: “Methodological Innovations in Health and Mortality.”

Judge, undergraduate paper competition, Midwest Sociological Society. 2016.

Ad hoc reviewer: *Demography; Demographic Research; Journal of Gerontology; Journal of Health and Social Behavior; Social Forces*

#### *UNIVERSITY OF COLORADO*

Graduate student representative, Return to Research Committee (COVID-19), Spring 2020

#### *SOCIOLOGY DEPARTMENT*

Graduate student coordinator, Population and Health Workshop, 2016.

Committee participation:

Student representative, Sociology Graduate Committee, 2015-2016, 2017-2018.

Student representative, Faculty Search Committee, 2017.

Student member, Betsy Moen Award Selection Committee, 2017.

Member, Open House Committee, 2016.

Cohort representative, Sociology Graduate Student Collective, 2014-2015.

#### *INSTITUTE OF BEHAVIORAL SCIENCE*

Member, Board of Directors, Institute of Behavioral Science, 2019-2020.

#### **METHODS AND PROGRAMMING SKILLS**

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*Statistical Packages:* Stata (skilled); Excel (skilled); R (highly proficient); HLM (proficient); SAS (basic); Python (basic)

*Quantitative Methods:* Demographic Techniques; Survival Analyses and Event History Modeling; Multilevel Modeling; Age-Period-Cohort Models; Growth Curve Analyses; Quasi-Experimental Design for Causal Inference; OLS Regression and Categorical Data Analyses

*Datasets:* National Health Interview Survey (NHIS) with Linked Mortality Files (LMFs); Area Health Resource Files (AHRF); National Vital Statistics Systems (NVSS): Linked Birth/Infant Death Cohort Data, Multiple Cause of Death Data; United States Census: Population Estimates, Small Area Income and Poverty Estimates (SAIPE); Lonestar Project data; Mexican American Study Project I and II (MASP)

*Other:* Census Research Data Center Special Sworn Status

#### **PROFESSIONAL MEMBERSHIPS**

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American Sociological Association

Sections: *Aging and the Life Course; Family; Medical Sociology; Methodology; Population*

Interdisciplinary Association for Population Health Science

Population Association of America

Southern Demographic Association