

NATHAN SELTZER

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8128 William H. Sewell Social Sciences Building, 1180 Observatory Drive, Madison, WI 53706

EDUCATION

Ph.D. Student in Sociology

University of Wisconsin-Madison, August 2015 - Present

M.A., Applied Quantitative Research

New York University, Department of Sociology, September 2014

Master's Thesis: "A Fixed-Effects Analysis of the Association between Educational Attainment and Electoral Participation: Findings from a Nationally Representative Survey of Americans in their Third Decade of Life." Committee: Mike Hout, Jeff Manza, and Larry Wu.

B.A., Sociology and French, Minor in Urban Studies

Tulane University, May 2011

RESEARCH INTERESTS

Demography, Social Stratification, Political Sociology, Family Complexity, Computational Sociology

PUBLICATIONS

Published Peer-Reviewed Journal Articles

Seltzer, Nathan and Jenna Nobles. Forthcoming, 2017. "Post-Disaster Fertility: Hurricane Katrina and the Changing Racial Composition of New Orleans." *Population and Environment*

Brook, Judith, Chenshu Zhang, **Nathan Seltzer**, and David Brook. 2015. "Insomnia in Adults: The Impact of Earlier Cigarette Smoking from Adolescence to Adulthood." *Journal of Addiction Medicine*, 9(1): 40-45.

Brook, Judith, David Brook, Chenshu Zhang, **Nathan Seltzer**, and Stephen Finch. 2013. "Adolescent ADHD and Adult Physical and Mental Health, Work Performance, and Financial Stress." *Pediatrics*, 131(1): 5-13.

Brook, Judith, Jung Yeon Lee, Stephen J. Finch, David W. Brook, and **Nathan Seltzer**. 2013. "Adult Work Commitment, Financial Stability, and Social Environment as Related to Marijuana Trajectories Beginning in Adolescence." *Substance Abuse*, 34(3):298-305

Brook, Judith, Jung Yeon Lee, Elizabeth Rubenstone, Stephen J. Finch, **Nathan Seltzer**, and David Brook. 2013. "Longitudinal Determinants of Substance Use Behaviors." *Journal of Urban Health*, 90(6): 1130-1150.

Brook, Judith, Chenshu Zhang, Elinor Balka, **Nathan Seltzer**, and David W. Brook. 2013. "Personality Characteristics in the Mid-Forties Predict Women's Smoking Cessation in their Mid-Sixties." *Psychological Reports*, 113(3): 921-929.

Manuscripts in Preparation

Seltzer, Nathan. "Differences in Fertility Behavior Across Race and Ethnicity in Metropolitan Areas during the Great Recession"

Seltzer, Nathan. "Consequences of Adolescent Family Structure on Voter Participation in Adulthood"

Marcia J. Carlson, Frank Furstenberg, Sara McLanahan, **Nathan Seltzer**, and Alicia VanOrman. "Multipartnered Fertility and Children's Behavioral Outcomes Among Urban U.S. Families"

Nobles, Jenna and **Nathan Seltzer**. “Demography Before Birth: Estimating the effects of large-scale events on neonatal outcomes: an application to Hurricane Katrina”

FELLOWSHIPS and AWARDS

2017 **Conference Travel Award**, Center for Demography and Ecology, University of Wisconsin-Madison
2016 **Conference Travel Award**, Center for Demography and Ecology, University of Wisconsin-Madison
2015-2016 **University Fellowship** (\$19,710), “Awarded by the Graduate School to a few outstanding entering students and dissertators,” University of Wisconsin-Madison

PROFESSIONAL AFFILIATIONS

2016 – Present **Graduate Research Fellow**, Institute for Research on Poverty, University of Wisconsin-Madison
2015 – Present **Graduate Student Affiliate**, Center for Demography and Ecology, University of Wisconsin-Madison

PRESENTATIONS

Apr. 2017. **Seltzer, Nathan**. “Differences in Fertility Behavior Across Race and Ethnicity in Metropolitan Areas during the Great Recession.” Population Association of America Annual Conference, Chicago, IL. Paper Presentation.

Apr. 2017. Marcia J. Carlson, Frank Furstenberg, Sara McLanahan, **Nathan Seltzer** and Alicia VanOrman. “Multipartnered Fertility and Children’s Behavioral Outcomes Among Urban U.S. Families.” Population Association of America Annual Conference, Washington, DC. Paper Presentation.

Nov. 2016. **Seltzer, Nathan**. “Preschool and K-12 Education.” Sociology 496: Poverty, Inequality and Social Policy. UW-Madison. Madison, WI. Guest Lecture.

Oct. 2016. **Seltzer, Nathan**. “Consequences of Adolescent Family Structure on Voter Participation in Adulthood.” Wisconsin Sociological Association Conference, Madison, WI. Paper Presentation

Mar. 2016. **Seltzer, Nathan**. “The Effect of Parental Divorce in Adolescence on Voter Participation in Adulthood.” Population Association of America Annual Conference, Washington, DC. Poster Presentation.

Nov. 2014. **Seltzer, Nathan**. “A Fixed-Effects Analysis of Educational Attainment and Voter Participation.” AQR Pro-Seminar, Department of Sociology, New York University. Invited Lecture.

SERVICE

2016 – Present **Faculty and Association Relations Officer**, UW-Madison Sociology Graduate Student Association
2015 – 2016 **Cohort Representative**, UW-Madison Sociology Graduate Student Association
2015 – Present **Curriculum Committee Member**, UW-Madison Sociology Department

SKILLS

Advanced Proficiency: R, STATA, SQL, SPSS, Tableau, Markdown, Qualtrics
Familiarity/Learning: Python (NumPy, Scikit-Learn, Pandas), LaTeX, ArcGIS, Atlas.ti, Adobe Creative Suite
Foreign Languages: French

RESEARCH EXPERIENCE

- 6/2016 – Present **Research Assistant**
Marcy Carlson, University of Wisconsin-Madison, Department of Sociology
- 8/2016 – 9/2016 **Project Assistant**
Jenna Nobles, University of Wisconsin-Madison, Department of Sociology
- 5/2015 – Present **Freelance Data/Statistical Consultant**
- Assist clients with data and statistical analysis projects, including complex survey analyses
- 8/2014 – 7/2015 **Data Modeling Analyst**
New York University, Department of Institutional Research
- Developed and deployed predictive models of undergraduate student yield, financial aid allocation, and tuition revenue
- Wrote R scripts to extract, clean, and transform datasets; programmed custom modeling functions to automate and optimize development, validation and implementation of predictive models
- Applied methodological knowledge of econometric and machine learning techniques, such as random forests, regression trees, and logistic regression, to interpret model performance and effectively communicate results to senior level university administrators including deans and VP's
- 1/2014 – 8/2014 **Quantitative Data Analysis Student Consultant**
New York University, Data Services
- Provided data consultations and guidance on the use of Stata, R, and SPSS to faculty, graduate students, and undergraduate students working on quantitative research projects
- Assisted researchers with complex data management tasks, such as data cleaning and recoding, merging and appending, application of survey weights, and considerations for dealing with missing data
- Taught an introductory/intermediate SPSS course to members of the NYU community, including a specialized two-hour session for a group of 25 PhD-level medical researchers
- 9/2011 – 8/2013 **Research Assistant**
New York University School of Medicine, Behavioral Science and Substance Use Research Group
- Interpreted statistical analyses, wrote introduction and discussion sections of research articles, compiled bibliography, and drafted paper manuscripts for submission to top public health journals
- Organized participant database using Microsoft Access, updated 300 page research codebook, and recoded completed survey questionnaires prior to data entry
- Analyzed SAS data outputs to create visually informative charts and graphs for “findings” section of research study website; created informative maps using ArcGIS software
- Spring 2011 **Research Assistant**
Diane Grams, PhD, Assistant Professor of Sociology, Tulane University
- Devised database and classification system for research documents
- Geocoded cultural-spatial data with ArcGIS mapping software

EDITORIAL EXPERIENCE

- 4/2008 – 5/2011 **Editor-in-Chief**
The Tulane Review, Tulane University, New Orleans, Louisiana