

**CHASING THE (CAUSAL) DRAGON:
INTERMEDIATE QUANTITATIVE DATA ANALYSIS FOR SOCIOLOGISTS
SOCY 54**

Fall Quarter 2017

(MWF, 10:10am-11:15am; x-period, Th 12:15pm-1:05pm)

Location: XXXXX

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Office Hours: Wednesday 3:30pm-5pm, or by appointment

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Course Description:

Sociologists and other social scientists are often interested in understanding causal and dynamic social processes such as:

“How do the places we live, work, and play get under the skin and affect health and well-being across the life course?”

“Does upward social class mobility change one’s political attitudes?”

“What social currents are responsible for changes in support for same-sex marriage across historical time?”

“Are long-standing racial inequalities declining, persisting, or increasing in recent years?”

Many of these questions are methodologically difficult to answer with observational (non-experimental) data, and they require that we get a handle on the study of change, context, and causality. You likely have learned how to answer questions like these with standard OLS (linear) regression techniques and cross-sectional data, which remain useful tools in social scientists’ methodological toolbox. But these techniques are also quite limited, and impose strict assumptions that do not allow us to meet many of our goals, adequately answer our questions, or provide stringent tests of our theories and hypotheses.

In this course, we’ll pick up where introductory statistics courses leave off, and get an introduction to more advanced statistical methods for observational data, including but not limited to: regression for categorical dependent variables, fixed and random effects models, and hierarchical linear modeling. This course will be a mix of seminar and lecture, where we will be focused on understanding how we can use these methods to better meet our goals and answer our research questions. Put differently, this course is less focused on going “under the hood” and more focused on “how to drive”—specifically, we will interrogate the assumptions and use of these statistical methods in the social sciences and learn how to implement these methods using STATA. This will include: discussion of core methodological assumptions and limitations, how to apply these statistical methods in different settings, and learning when specific methods are appropriate tools and when they are not. We will explore these issues through student-led discussions, hands-on data analysis, and dissecting the application of these methods in academic journal articles. As part of this course, you will be exposed to (and critique) a wide range of sociological research published in our major disciplinary journals. The course will culminate in an independent research project where students will analyze data and use the one or more of the modeling techniques discussed during the term to answer a sociological research question of their choosing.

SOCY 10 or equivalent and a basic understanding of STATA is required to enroll in this course.

Course Readings

Required Texts

Firebaugh, Glenn. 2008. *Seven Rules for Social Research*. Princeton: Princeton University Press (*note: this is a handy reference that we will use throughout the course, but it is not a statistics textbook*).

*We will primarily rely on academic journal articles in this course, available on CANVAS. The full citation of these readings are listed at the end of this syllabus.

Optional Texts:

Basic Statistics (resources for those looking for a refresher on introductory statistics)

Healey, Joseph. 2014. *Statistics: A Tool for Social Research, 10th edition*. Stamford, CT: Cengage.

Wheelan, Charles (Dartmouth '88). 2013. *Naked Statistics: Stripping the Dread from the Data*. New York: WW Norton.

Ziliak, Stephen T. and Deirdre N. McCloskey. 2008. *The Cult of Statistical Significance: How the Standard Error Costs Us Jobs, Justice, and Lives*. Ann Arbor: University of Michigan Press

STATA Guides (resources for those having trouble with STATA---see the section below for online resources)

Acock, Alan. 2012. *A Gentle Introduction to Stata (Revised Third Edition)*. College Station, TX: Stata Press.

Long, J Scott, and Jeremy Freese. 2006. *Regression Models for Categorical Dependent Variables Using Stata, 2nd ed.* College Station: Stata Press.

A Deeper Dive (an elaboration of the methods discussed this term)

Allison, Paul. 2009. *Fixed Effects Regression Models*. Thousand Oaks: Sage

Angrist, Joshua and Jörn-Steffen Pischke. 2009. *Mostly Harmless Econometrics*. Princeton: Princeton University Press.

Raudenbush, Stephen and Anthony Bryk. 2002. *Hierarchical Linear Models: Applications and Data Analysis Methods*. Thousand Oaks: Sage.

Singer, Judith and John Willett. *Applied Longitudinal Data Analysis*. New York: Oxford University Press

*Additional optional readings (academic journal articles) are available on CANVAS. The full citation of these readings are listed at the end of the syllabus.

For a good application of statistics to everyday life, I highly recommend that you add these blogs to your daily reading:

Family Inequality (Phil Cohen): <http://familyinequality.wordpress.com/>

Five Thirty Eight (Nate Silver et al.): <http://www.fivethirtyeight.com/>

Vox (Ezra Klein et al.) www.vox.com

The Upshot (NYTimes) <http://www.nytimes.com/upshot/>

Wonkblog (WaPo): <http://www.washingtonpost.com/blogs/wonkblog/>

Statistical Modeling, Causal Inference, Social Science (Andy Gelman)

<http://andrewgelman.com/>

Statistical Software and Electronics

We will be using STATA 13.1 for in-class demonstrations, problem sets, and the final project. STATA is available for free on the Dartmouth Network (Mac/PC) and is also available on most public computers on campus. If you are off campus, you can use Dartmouth's VPN to access the keyserve. For more information on STATA resources and installing STATA on your computer, see the following websites:

<http://tech.dartmouth.edu/its/services-support/help-yourself/knowledge-base/software>

MAC: <http://tech.dartmouth.edu/its/services-support/help-yourself/knowledge-base/stata-macintosh-os-x>

PC: <http://tech.dartmouth.edu/its/services-support/help-yourself/knowledge-base/stata-windows>

Please use these resources and the helpdesk for any installation questions.

In most classes, we will be using STATA in order to demonstrate statistical techniques. this reason, you are encouraged to bring your laptop to class to every class period.

A brief note on STATA: Becoming proficient in a programming language is **hard**. I will periodically provide STATA refreshers during Xhours, and we will learn/practice new STATA commands during regular class periods. However, I highly recommend that you practice outside of class to hone your skills. Please see me during office hours with all STATA related questions. In addition, here are some resources that will help you as you learn to code in STATA:

STATA Resources

Jianjun Hua's research guides

<http://researchguides.dartmouth.edu/content.php?pid=316205&sid=2587562>

UCLA Stata Resources

<http://www.ats.ucla.edu/stat/stata/>

Princeton Stata Resources:

<http://data.princeton.edu/stata/>

<http://dss.princeton.edu/training/StataTutorial.pdf>

http://dss.princeton.edu/online_help/stats_packages/stata/

You will also need to have a calculator to complete your assignments and exams, and to participate in in-class exercises. A basic and inexpensive calculator that has square-root and squaring functions is best for use in this class. Make sure to bring your calculator to class every day and to all exams. You are not permitted to use cell phone calculators for exams, but you are welcome to use them during regular class periods.

Evaluation and Grading

Student Mini-Conferences (10%) On the last day of each unit, a group of 2-4 students will be responsible for presenting the findings of one of the optional readings from the unit (listed at the end of this syllabus) to the class for 20 minutes max. Students can select any of the optional readings **listed in bold** at the end of the syllabus for each respective unit. Alternatively, students are also welcome to present on an alternative reading/study, provided that I approve it in advance. Your goal in these mini-conferences is to present the main points of one of the optional readings to the class (which your classmates will not have read). As part of these mini conferences, groups should focus on: 1) communicating the main points of the reading to the audience (what is the author asking/arguing? Why is this important?); 2) reflecting on how this article builds on/complicates/challenges what we have learned so far in this unit (and perhaps other units); 3) discuss the strengths and limitations of the use of the statistical method; and 4) the implications for future research. When presenting, keep in mind that you are effectively teaching new material to your fellow classmates, who will not have read the piece you selected for the day.

Homework (15%): There will be several homework assignments throughout the term. Assignments will typically be due at the beginning of class on Monday unless otherwise specified. For all homework assignments, you will need to turn in STATA output (LOG and Do files). If you do not do so, you will lose a great deal of points. For most of these assignments you will use STATA. Students are welcome to work together and help each other on assignments, **but each student MUST turn in their own assignment and provide answers in their own words**. Assignments will be posted on Canvas by Monday of the week before they are due (at the latest). Please post any questions about the assignments to the “Homework Discussions” forum on Canvas. I will be checking this forum occasionally, but its primary purpose is to provide you a place to help one another understand the material.

In-class activities and lab assignments (10%): Many class sessions will include in-class activities (either discussion based or lab based), in which students will work together to solve an empirical problem and/or dig into the assumptions of the methods that are being discussed that day. These group activities are crucial to the success of the course, and therefore your participation in these activities is important. These in-class assignments will be handed in at the end of the class period and graded on the check system (✓+ [exemplary], ✓ [average/adequate], ✓- [not sufficient]). You can only get credit for the assignments if you are present on the day of class. For this reason, I will drop the two lowest activity grades. In essence, each student has two freebies.

Class Participation (5%): Although I will lecture during this course, much of the class will revolve around STATA labs and our discussion of the methods and the application of these methods. Thus, class participation is imperative to the success of this class. What does class participation entail? It means you must be an active participant in the class. This includes: 1) contributing to class discussion; 2) actively contributing to small group exercises and lab. if you come into class, sit quietly every day, and do not contribute to class discussion you will receive a 0 for class participation. Note that this grade is separate from your in-class lab assignment grade.

Final Research Paper (60%) For the final writing assignment, you will write a standard sociological research paper—modeled on the academic articles we read this term—on the topic or question of your choice. You will draw on secondary literature (at least seven academic sociological research articles) to address your research questions. You will conduct an original data analysis using one or more of the methods discussed in this course to answer your research question. More detailed instructions will follow. This paper will be completed in a series of steps, and you will receive feedback and review from myself and your classmates at each stage:

- 1) *1/2-page research proposal (5%)*: Your research proposal must include your research question, a testable hypothesis, and a description of the data and methods you plan to use to address/answer your research question. **Due Fri 9/29**
- 2) *Data Analysis I (5%)*: **Due Mon 10/16**
- 3) *Data Analysis II (5%)*: **Due Mon 10/27**
- 4) *Presentation of Research Project (15%)* (To be scheduled during final week of class)*
- 5) *Final Draft (30%)* **Due Mon 11/20**

**attendance is required for all final presentation dates*

I will use the following scale in assigning final grades:

95%-100%: A	83%-88.9%: B	73%-76.9%: C	Below 60%: F
92%-94.9% A-	80%-82.9% B-	70%-72.9% C-	
89%-91.9%: B+	77%-79.9%: C+	60%-69.9%: D	

Please note the following about grades: 1) I base my grades on the Dartmouth Scholarship ratings (http://www.dartmouth.edu/~reg/transcript/grade_descriptions.html) 2) I do not round grades; 3) I **do not negotiate final grades** unless an error was made. .

One final note: To receive full credit on homework assignments and exams, you **must** show your work. If you write down the answer without showing how you got to that answer, even if that answer is correct, you will not receive full credit.

Attendance Policy

As a general rule, I do not believe in attendance policies for college-aged students. If you must miss class, you do not need to provide me with an explanation. More importantly, do not ask whether you missed anything important (if the material you missed wasn't important, it wouldn't have been covered in class). Do not ask me for lecture notes—ask your classmates. I will assume that you are serious about your commitment to this class. As such, I presume that if you miss class you have a good reason (e.g., you are very sick, you are caring for someone who is very sick, or you are trapped under something very heavy). Two exceptions: 1) If your absences become chronic, or if you anticipate chronic absences, then it's time to consult with me; 2) your attendance is required for group presentation days.

All that said, if you blow off class and do so on a regular basis, you will likely fall behind and find it very difficult to catch up. You will also not receive credit for in-class activities. Fair warning: if this happens, I am unlikely to sympathize with your plight.

Late Policy

On any assignment, your grade will be reduced by 8 percentage points for each day late (e.g., 1 day late a grade of 100 would be reduced to a 92; 2 days, 84; and so on). Assignments that are more than 5 days late will not be graded and will receive a 0. Given that assignments are posted far in advance, no exceptions to the late policy will be made, including for planned and unplanned absences.

Academic Integrity

Academic integrity is the pursuit of scholarly activity in an open, honest and responsible manner and all members of the Dartmouth community are expected to act in accordance with this principle. Academic integrity includes a commitment not to engage in or tolerate acts of falsification, misrepresentation or deception. Such acts of dishonesty violate the fundamental ethical principles of the Dartmouth community and compromise the worth of work completed by others. As such, dishonesty of any kind will not be tolerated and students found in violation of the Dartmouth Honor Code will be notified and reported to the appropriate authorities. Cheating and other forms of dishonesty (such as plagiarizing) often result when students feel too much pressure to perform and that they do not have the tools to achieve their goals. If you are falling behind or feeling overwhelmed, please come sit down and chat with me BEFORE you decide to cheat.

Disability Needs

Any student with a disability-related need for modifications or reasonable accommodations in this course must let me know as soon as early in the term as possible and contact the Student Disabilities Coordinator. I will keep this information strictly confidential, but please note that the Student Disabilities Coordinator may be consulted to verify the disability. See <http://www.dartmouth.edu/~accessibility/> for more information.

TENTATIVE COURSE SCHEDULE

Class	Topic	Readings	Assignment Due Dates
M 9/11	Course Introduction	Wheelan Ch 11-12	
W 9/13	Regression: Review and Expansion I	Firebaugh, Ch 1.	
Th 9/14	X hour: STATA Basics (Optional)	Firebaugh, Ch 2;	
F 9/15	Regression: Review and Expansion II	Stack and Gundlach 1992	
M 9/18	Regression: Review and Expansion III	Firebaugh, Ch 3.	Mini Conference #1
W 9/20	STATA Workshop: Advanced Workflow Techniques		
F 9/22	Regression for Categorical DV's I	Firebaugh, Ch 4; Harris and Sim	
M 9/25	Regression for Categorical DV's II	Uggen and Manza 2002	
W 9/27	Regression for Categorical DV's III	McLaughlin et al. 2012	
Th 9/28	X Hour: Final Project Lab (Optional)		
F 9/29	Regression for Categorical DV's IV		Mini Conference #2; Research Proposal Due
M 10/2	An Introduction to the Study of Change I	Ryder 1965; Firebaugh and Haynie 1997	
W 10/4	An Introduction to the Study of Change II	Firebaugh Ch. 5-6	Mini Conference #3
Th 10/5	X Hour: Final Project Lab (Optional)		
F 10/6	Fixed and Random Effects I	Johnson 1995	
M 10/9	Fixed and Random Effects II	Berger and Houle 2016	
W 10/11	Fixed and Random Effects III	Colen & Ramey 2014	Mini Conference #4
Th 10/12	HLM I	Denney 2015 -OR- Ross and Mirowsky 2001	Data Analysis I due
F 10/13	***NO CLASS: Meet Thursday X Hour****		
M 10/16	HLM II	Houle and Berger 2017	
W 10/18	HLM III	Hook 2010	Mini Conference #5
Th 10/19	X Hour: Final Project Lab (Optional)		

F 10/20	Event History I	Greenman and Hall	
M 10/23	Event History II	Link et al.	
W 10/25	Event History III		Mini Conference #6
Th 10/26	X Hour: Final Project Lab (Optional)		
F 10/27	Natural/Quasi Experiments and Instrumental Variables I	Firebaugh, Ch 7.; Kirk 2009	Data Analysis II due
M 10/30	Natural/Quasi Experiments and Instrumental Variables II	Light and Iceland 2016	Mini Conference #7
W 11/1	Much Ado About Missing Data I	Johnson and Young 2011; Acock 2005	
Th 11/2	X Hour: Final Project Lab (Optional)		
F 11/3	Much Ado About Missing Data II		Mini Conference #8
M 11/6	Advanced Topics: The Identification Problem in Sociology and Demography*	Houle 2011	
W 11/8	Advanced Topics: The Identification Problem in Sociology and Demography*	Masters et al. 2012 OR Yang 2008	Mini Conference #9
Th 11/9	X Hour: Final Project Lab (Optional)		
F 11/10	Final Presentations		
M 11/13	Final Presentations		
FINAL PAPER DUE VIA EMAIL BY MONDAY, NOVEMBER 20, 11:59 PM			

NOTE: *if time permits

Required Chapters and Articles by Unit

In addition to the Firebaugh book (7 Rules), we will also be reading and discussing a range of academic articles and chapters, noted above in the tentative course schedule. These articles are available on CANVAS, and the full citations are below:

Unit 1: A Review and Expansion of Regression

Stack, Steven, and Jim Gundlach. 1992. "The Effect of Country Music on Suicide." *Social Forces* 71:211-218.

Wheelan, Charles (Dartmouth '88). 2013. *Naked Statistics: Stripping the Dread from the Data*. New York: WW Norton. (Excerpts)

Unit 2: Regression for Categorical DV's

Harris, David and Jeremiah Joseph Sim. 2002. "Who is Multiracial? Assessing the Complexity of Lived Race." *American Sociological Review* 67:614-627.

McLaughlin, Heather, Christopher Uggen, and Amy Blackstone. 2012. "Sexual Harassment, Workplace Authority, and the Paradox of Power." *American Sociological Review* 77:625-647.

Uggen, Christopher and Jeff Manza. 2002. "Democratic Contraction? Political Consequences of Felon Disenfranchisement in the United States." *American Sociological Review* 67:777-803.

Unit 3: An Introduction to the Study of Social Change

Firebaugh, Glenn and Dana Haynie. 1997. "Using Repeated Surveys to Study Aging and Social Change." Pp. 148-163 in *Studying Aging and Social Change: Conceptual and Methodological Issues*, Melissa Hardy, ed. Thousand Oaks: Sage.

Ryder, Norman B. 1965. "The Cohort as a Concept in the Study of Social Change." *American Sociological Review* 6:843-861.

Unit 4: Fixed and Random Effects

Berger, Lawrence, and Jason Houle. 2016. "Parental Debt and Child Well-Being." *Pediatrics* 137:1-8.

Colen, Cynthia and David Ramey. 2014. "Is Breast Truly Best? Estimating the Effects of Breastfeeding on Long-Term Child Health and Wellbeing in the United States By Using Sibling Comparisons." 109:55-65.

Johnson, David. 1995. "Alternative Methods for the Quantitative Analysis of Panel Data in Family Research: Pooled Time-Series Models." *Journal of Marriage and Family* 57:1065-1077.

Unit 5: HLM

Denney, Justin, Tim Wadsworth, Richard Rogers, and Fred Pampel. 2015. "Suicide in the City: Do Characteristics of Place Really Influence Risk?" *Social Science Quarterly* 96:313-329.

Hook, Jennifer L. 2010. "Gender Inequality in the Welfare State: Sex Segregation in Housework, 1965-2003." *American Journal of Sociology* 115:1480-1523.

Houle, Jason and Lawrence Berger. 2017. "Children with Disabilities and Trajectories of Parents' Consumer Debt Across the Life Course." *Social Science Research* 64:184-196

Ross, Catherine E. and John Mirowsky. 2001. "Neighborhood Disadvantage, Disorder, and

Health.” *Journal of Health and Social Behavior* 42:258-276.

Unit 6: Event History

Greenman, Emily and Matthew Hall. 2013. “Legal Status and Educational Transitions for Mexican and Central American Immigrant Youth.” *Social Forces* 91:1475-1498.

Link, Bruce G, Richard M Carpiano, and Margaret M. Weden. 2013. “Can Honorific Awards Give Us Clues About the Connection Between Socioeconomic Status and Mortality?” *American Sociological Review* 78:192-212.

Unit 7: Natural Experiments and Instrumental Variables

Kirk, David S. 2009. “A Natural Experiment on Residential Change and Recidivism: Lessons from Hurricane Katrina.” *American Sociological Review* 74:484-505.

Light, Michael T and John Iceland. 2016. “The Social Context of Racial Boundary Negotiations: Segregation, Hate Crime, and Hispanic Racial Identification in Metropolitan America.” *Sociological Science* 3:61-84.

Unit 8: Missing Data

Acock, Alan C. 2005. "Working with Missing Values." *Journal of Marriage and the Family* 67:1012-1028.

Johnson, David and Rebekah Young. 2011. “Toward Best Practices in Analyzing Datasets with Missing Data: Comparisons and Recommendations.” *Journal of Marriage and Family* 73:926-945.

Unit 9: The Identification Problem

Houle, Jason. 2011. “The Psychological Impact of Intragenerational Social Class Mobility.” *Social Science Research* 40:757-772.

Masters, Ryan, Robert Hummer, and Daniel Powers. 2012. “Educational Differences in U.S. Adult Mortality: A Cohort Perspective.” *American Sociological Review* 77:548-572.

Yang, Yang. 2008. “Social Inequalities in Happiness in the United States, 1972-2004: An Age-Period-Cohort Analysis.” *American Sociological Review* 73:204-226.

OPTIONAL READINGS BY UNIT (readings in bold may be used for your mini conferences. The remaining readings are for your own edification)

Unit 1: A Review and Expansion of Regression (Mini Conference 1)

- Addo, Fenaba, Jason Houle and Daniel Simon. 2016. "Young, Black, and (Still) in the Red; Parental Wealth, Race, and Student Loan Debt." *Race and Social Problems* 8:64-76.
- Anthony, Denise. 2005. "Cooperation in Microcredit Borrowing Groups: Identity, Sanctions, and Reciprocity in the Production of Collective Goods." *American Sociological Review* 70:496-515.
- Barkan, Steven. 2014. "Gender and Abortion Attitudes: Religiosity as a Suppressor Variable." *Public Opinion Quarterly* 78:940-950.
- Bodovski, Katerina and George Farkas. 2008. "Concerted Cultivation and Unequal Achievement in Elementary School." *Social Science Research* 37:903-919.**
- Burgard, Sarah A and Jennifer A Ailshire. 2012. "Gender and Time for Sleep Among U.S. Adults." *American Sociological Review* 78:51-69.**
- Downey, Liam and Marieke Van Willigen. 2005. "Environmental Stressors: The Mental Health Impacts of Living Near Industrial Activity" *Journal of Health and Social Behavior* 46:289-305.**
- Houle, Jason. 2014. "Disparities in Debt: Parents' Socioeconomic Resources and Young Adult Student Loan Debt." *Sociology of Education* (note: a bonus to whomever finds the error embedded in the results section of this paper)**
- Link, Bruce G and Jo Phelan. 2014. "Stigma Power." *Social Science and Medicine* 103:24-32.**
- Lively, Kathryn J., Lala Carr Steelman, and Brian Powell. 2010. "Equity, Emotion, and Household Division of Labor Response." *Social Psychology Quarterly* 73:358-379.**
- Stults, Brian J and Eric P Baumer. 2007. "Racial Context and Police Force Size: Evaluating the Empirical Validity of the Minority Threat Perspective." *American Journal of Sociology* 113:507-546.**
- Turley, Ruth López and Matthew Desmond. 2011. "Contributions to College Costs by Married, Divorced, and Remarried Parents." *Journal of Family Issues* 32:760-790.**
- Unnever, James D and Frances T Cullen. 2007. "The Racial Divide in Support for the Death Penalty: Does White Racism Matter?" *Social Forces* 85:1281-1301.**

Unit 2: Regression for Categorical DV's (Mini Conference 2)

- Barkan, Steven, Michael Roque and Jason Houle. 2013 "State and Regional Suicide Rates: A New Look at an Old Puzzle." *Sociological Perspectives* 56:287-297.
- Branigan, Amelia R. et al. 2013. "Skin Color, Sex, and Educational Attainment in the Post-Civil Rights Era." *Social Science Research* 42:1659-1674.**
- Brooks, Clem. 2000. "Civil Rights Liberalism and the Suppression of a Republican Political Realignment in the United States, 1972-1996." *American Sociological Review*. 65:483-505.
- Desmond, Matthew et al. 2013. "Evicting Children." *Social Forces* 92:303-327.**
- Dixon, Marc and Andrew Martin. 2012. "We Can't Win This On Our Own: Unions, Firms, and Mobilization of External Allies in Labor Disputes." *American Sociological Review* 77:946-969.**
- Dwyer, Rachel, Laura McCloud, and Randy Hodson. 2012. "Debt and Graduation from**

- American Universities.” *Social Forces* 90:1133-1155.
- Fomby, Paula and Andrew Cherlin. 2007. “Family Instability and Child Well-Being.” *American Sociological Review* 72:184-204.
- Frisco, Michelle, Jason Houle, and Adam Lippert. 2013. “Weight Change and Depression Among US Young Women During the Transition to Adulthood.” *American Journal of Epidemiology* 178:22-30.
- Houle, Jason and Lawrence Berger. 2015. “Is Student Loan Debt Discouraging Home Buying Among Young Adults?” 89:589-621.
- Kalleberg, Arne, Barbara Reskin, and Ken Hudson. 2000. “Bad Jobs in America: Standard and Nonstandard Employment Relations and Job Quality in the United States.” *American Sociological Review* 65:256-278.
- Kubrin, Charis, Tim Wadsworth, and Stephanie DiPietro. 2006. “Deindustrialization, Disadvantage and Suicide Among Young Black Males.” *Social Forces* 84:1559-1579.
- Link, Bruce G et al. 2017. “Disparities in Self-Rated Health Across Generations and Through the Life Course.” *Social Science and Medicine* 174:17-25.
- Maroto, Michelle. 2016. “Growing Farther Apart: Racial and Ethnic Inequality in Household Wealth Across the Distribution.” *Sociological Science* 3:801-824.
- Mood, Carina. 2009. “Logistic Regression: Why We Cannot Do What We Think We Can Do, And What We Can Do About it.” *European Sociological Review* 26:67-82.
- Osgood, Wayne D. 2000. “Poisson-Based Regression Analysis of Aggregate Crime Rates.” *Journal of Quantitative Criminology* 16:21:43.
- Pager, Devah. 2016. “Are Firms that Discriminate More Likely to Go Out of Business?” *Sociological Science* 3:849-859.
- Schnittker, Jason, Jeremy Freese, and Brian Powell. 2003. “Who Are Feminists and What do they Believe? The Role of Generations” *American Sociological Review* 68:607-622.
- Smith, Brad and Malcolm Holmes. 2014. “Police Use of Excessive Force in Minority Communities: A Test of the Minority Threat, Place, and Community Accountability Hypotheses.” *Social Problems* 61:83-104.
- Wildeman, Christopher, Jason Schnittker, and Kristin Turney. 2012. “Despair by Association? The Mental Health of Mothers with Children by Recently Incarcerated Fathers.” *American Sociological Review* 77:216-243.

Unit 3: An Introduction to the Study of Social Change (Mini Conference 3)

- Amato, Paul R, David R Johnson, Alan Booth, and Stacy Rogers. 2003. “Continuity and Change in Marital Quality Between 1980 and 2000.” *Journal of Marriage and Family* 65:1-22.
- Buchmann, Claudia and Thomas A DiPrete. 2006. “The Growing Female Advantage in College Completion: The Role of Family Background and Academic Achievement.” *American Sociological Review* 71:515-541.
- England, Paula, Emma Mishel, and Mónica L. Caudillo. 2016. “Increase in Sex with Same-Sex Partners and Bisexual Identity Across Cohorts of Women (but not Men).” *Sociological Science* 3:951-970.
- Firebaugh, Glenn. 1988. “Trends in Antiblack Prejudice, 1972-1984: Region and Cohort Effects.” *American Journal of Sociology* 94:251-272.

- Firebaugh, Glenn. 1989. "Methods for Estimating Cohort Replacement Effects." *Sociological Methodology* 19:243-262.
- Firebaugh, Glenn and Brian Harley. 1991. "Trends in U.S. Church Attendance: Secularization and Revival, or Merely Lifecycle Effects? A Comment" *Journal for the Scientific Study of Religion* 30:487-500.
- Firebaugh, Glenn. 1997. *Analyzing Repeated Surveys*. New York: Sage
- Goesling, Brian. 2007. "The Rising Significance of Education for Health?" *Social Forces* 85:1621-1644.**
- Haynie, Dana L. 1998. "The Gender Gap in Fear of Crime, 1973-1994: A Methodological Approach." *Criminal Justice Review* 23:29-50.**
- Hunt, Matthew O. 2007. "African American, Hispanic, and White Beliefs about Black-White Inequality, 1977-2004." *American Sociological Review* 72:390-415.**
- McCabe, Janice et al. 2011. "Gender in Twentieth-Century Children's Books: Patterns of Disparity in Titles and Central Characters." *Gender and Society* 25:197-226**
- Phelan, Jo, Bruce Link, Ann Stueve and Bernice Pescosolido. 2000. "Public Conceptions of Mental Illness in 1950 and 1996: What is Mental Illness and Is It to be Feared?" *Journal of Health and Social Behavior* 41:188-207.**
- Schnittker, Jason. 2008. "An Uncertain Revolution: Why The Rise of a Genetic Model of Mental Illness Has not Increased Tolerance." *Social Science and Medicine* 67:1370-1381.**
- Western, Bruce and Jake Rosenfeld. 2011. "Unions, Norms, and the Rise in U.S. Wage Inequality." *American Sociological Review* 76:513-537.**

Unit 4: Fixed and Random Effects (Mini Conference 4)

- Beckfield, Jason and Clare Bambra. 2016. "Shorter Lives in Stingier States: Social Policy Shortcomings Help Explain the US Mortality Disadvantage." *Social Science and Medicine* 171:30-38.**
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