

BRADLEY J. BARTOS

Phone: (708) 250-2795
bbartos@uci.edu

3358 Social Ecology II
Irvine, CA 92697-7080

EDUCATION

University of California, Irvine

Ph.D. Criminology, Law & Society Spring 2020 (expected)

Dissertation: *Methodological Foundations of the Synthetic Control Group Design: Formalizing Model Construction for Case Study Applications in the Social Sciences.*
Committee: Richard D. McCleary (chair), Bryan L. Sykes, Charis E. Kubrin, John R. Hipp, & Charles C. Ragin.

M.A. Social Ecology 2016

Thesis: *The Diminishing Returns of Incarceration: Evidence from California's Substance Abuse and Crime Prevention Act (SACPA)*
Committee: Richard D. McCleary (chair), Bryan L. Sykes, & Nicholas Scurich.

Purdue University

2013

B.A. Law & Society
B.S. Psychological Sciences
Minors: Forensic Science
 Political Science

RESEARCH INTERESTS

Time Series Analysis, Mass Incarceration, Sentencing Policy, Systems Analysis and Simulation, Quantitative Methods, Causal Inference from Quasi-experimental designs

PUBLICATIONS

Books

McCleary, R., McDowall, D., & **Bartos, B. J.** (2017). *Design and Analysis of Time Series Experiments*. Oxford University Press.¹

McDowall, D., McCleary, R., & **Bartos, B.J.** (forthcoming, 2019). *Interrupted Time Series Analysis*. Oxford University Press.

¹ Review forthcoming (2019) in the *Journal of Experimental Criminology*

Peer-Reviewed Articles

Bartos, B. J., Newark, C. & McCleary, R. (2018). Medical marijuana and motor vehicle fatalities: A synthetic control approach to California's Compassionate Use Act. *Experimental Criminology*

Bartos, B. J., & Kubrin, C. E. (2018). Can we downsize our prisons and jails without compromising public safety? Findings from California's prop 47. *Criminology & Public Policy*, 17(3).

Bartos, B. J., Renner, M., Newark, C., McCleary, R., & Scurich, N. (2017). Characteristics of Forensic Patients in California with Dementia/Alzheimer's Disease. *Journal of Forensic Nursing*.

Renner, M., Newark, C., **Bartos, B. J.**, McCleary, R., & Scurich, N. (2017). Length of stay for 25,791 California patients found incompetent to stand trial. *Journal of Forensic and Legal Medicine*, 51, 22–26.

Articles Under-Review

Bartos, B. J., Mazerolle, L., & McCleary, R. (under review). Controlling Gun Violence: Assessing the Impact of Australia's Gun Buyback Program Using a Synthetic Control Group Experiment.

Bartos, B. J. (under review). The diminishing returns of incarceration: Evidence from California's substance abuse and crime prevention act (SACPA).

Bartos, B. J., McCleary, R., Newark, C. (under review). Tautology in criminological theory

Bartos, B. J., McCleary, R., Newark, C. (under review). The impact of state-level marijuana medicalization legislation on suicides involving firearms .

Technical Reports

Renner, M., **Bartos, B. J.**, Newark, C., & McCleary, R. (2018). *6 Month validation and accuracy assessment for UCIDSH projection model version 2.0*. Report submitted to California Department of State Hospitals.

Bartos, B. J., Newark, C., Renner, M., & McCleary, R. (2015). *The DSH prototype model: year-one report*. Report submitted to California Department of State Hospitals.

Bartos, B. J., Newark, C., Renner, M., & McCleary, R. (2015). *The LASD prototype model: year-one report*. Report submitted to Los Angeles County Sheriff's Department.

McCleary, R., Erlanger, C., & **Bartos, B.J.** (2014). *SOMS model version 1.0: 48-month population Projections*. Report submitted to the California Department of Corrections and Rehabilitation Office of Research.

Other Publications

Bartos, B.J., & McCleary, R. (2015). Generic Discrete-Event Simulation Model of a Prison (June 24, 2015). Available at SSRN: <http://ssrn.com/abstract=2622783>

FELLOWSHIPS, HONORS, AND AWARDS

Grants and Fellowships

DSH Research Grant- ~\$750,000	2015- 2019
LASD Research Grant- ~\$12,250	2015- 2016
CDCR Research Grant- ~\$15,000	2014- 2015
Martha Newkirk Fellowship- \$14,694 (plus fees)	Fall 2013

Awards and Honors

Departmental Commendation annual performance- \$500/yr	2014, 2016, 2017
Graduate Student Mentoring Award- \$200	July 2014
Kitty Calavita Award (for outstanding pre-dissertation research project)-\$750	Spring 2016

PROFESSIONAL PRESENTATIONS

Bartos, B. J., Mazerolle, L., & McCleary, R. (2018). *Life and Death Decisions: Estimating the Causal Impact of Australia's Gun Buyback Program on Homicide and Suicide*. Presented at the American Society of Criminology – 74th Annual Meeting, Atlanta, GA, November 13-17.

Bartos, B. J., Mioduszewski, M., Renner, M., & McCleary, R. (2017). *An application of discrete event simulation for planning and resource allocation in a state hospital system servicing both criminal and civil commitments* (pp. 4509–4511). Presented at the Simulation Conference (WSC), 2017 Winter, IEEE.

Bartos, B. J. (2017). *Synthetic control group methodology and the effects of marijuana medicalization in California*. Presented at the American Society of Criminology – 73rd Annual Meeting, Philadelphia, PA, November 16.

- Bartos, B. J.** (2017). *The Effect of Marijuana Medicalization in California on Motor Vehicle Fatalities*. Presented at the Western Society of Criminology Annual Conference, Las Vegas, NV, February 10-11.
- Bartos, B. J.** (2016). *Medical Marijuana and Motor Vehicle Fatalities: A Synthetic Control Approach to California's Compassionate Use Act*. Presented at the Orange County Long Beach Chapter of the American Statistical Association's Annual Poster Symposium, Irvine, CA, December 10.
- Bartos, B. J.** and McCleary, R. (2016). *Medical Marijuana and Motor Vehicle Fatalities: A Synthetic Control Approach to California's Compassionate Use Act*. Presented at the American Society of Criminology – 72nd Annual Meeting, New Orleans, LA, November 17-19.
- Bartos, B. J.,** & McCleary, R. (2016). *Marijuana Medicalization in California: Public Health & Safety Outcomes*. Presented at the Association for Criminal Justice Research- California Annual Fall Conference, Irvine, CA, October 20-22.
- Bartos, B. J.,** Erlanger, C., & McCleary, R. (2015). *Unintended Consequences of California's Public Safety Realignment*. Presented at the Western Society of Criminology Annual Conference, Phoenix, AZ, February 19-21.
- Bartos, B. J.** (2014). *Understanding the Impact of California's Realignment of Corrections on Race and Ethnic Minority Group Offenders*. Presented at the American Society of Criminology Annual Conference, San Francisco, CA, November 17-20.
- Bartos, B. J.** (2015). *The Impact of California's Public Safety Realignment Act (PSRA) on Crime Rates: A Synthetic Control Time Series Experiment*. In panel titled: *New Developments in Statistical Modeling and Causal Analysis*. Presented at the American Society of Criminology - 71st Annual Meeting, Washington, DC.

RESEARCH EXPERIENCE

- 2014-2019 *California Department of State Hospitals Population Projections Project*, University of California – Irvine, Irvine, CA, Model Architect/Graduate Research Assistant (PI: Richard McCleary, Bryan Sykes)
 Designed and developed a capacity-driven queuing model for DSH to project subpopulations, perform policy “what if” experiments, and make allocation decisions for a finite number of resources (i.e. psychiatric beds). Unlike our other population projections projects, the DSH model emphasizes the impact of resource allocation on waiting times and occupancy rates.

- 2014-2017 *Los Angeles County Sheriff's Department Population Projections Project, University of California – Irvine, Irvine, CA, Model Architect/Graduate Research Assistant (PI: Richard McCleary, Bryan Sykes)*
Designed and developed a discrete-event simulation model for LASD which could provide subpopulation forecasts as well as perform policy “what if” experiments, worked with LASD personnel to define the data required to build such a model, managed a team of fellow graduate students as we constructed the model, and presented the model to LASD stakeholders.
- 2013-2014 *California Department of Corrections Population Projections Project, University of California – Irvine, Irvine, CA, Graduate Research Assistant (PI: Susan Turner, Richard McCleary, Bryan Sykes)*
Modified data sets in SAS to reflect the data structure necessitated by our simulation model, constructed survival models from historical data to predict failure times for censored observations, developed a discrete-event simulation model in SAS Simulation Studio to reflect the flow of inmates through a “CDCR career”, made weekly progress reports to CDCR Office of Research, presented methodology and results to CDCR executives.
- 2011-2013 *Sociology Department, Purdue University, West Lafayette,*
Undergraduate Research Assistant (PI: Dr. Elizabeth Hoffman)
- 2011-2013 *Stereotyping & Prejudice Lab, Purdue University, West Lafayette,*
Undergraduate Research Assistant (PI: Dr. Margo Monteith, Mason Burns)

TEACHING EXPERIENCE

- Spring 2017 *Graduate Teaching Assistant: Data Analysis II (Dr. John Hipp) University of California – Irvine, Criminology, Law & Society Department.*
Led weekly instructional lab session for ~20 graduate students that served as a tutorial to Stata, dataset management, and regression-based inference.
- Spring 2014 *Graduate Teaching Assistant: Criminological Theory (Dr. Bryan Burton) University of California – Irvine, Criminology, Law & Society Department.*
- Winter 2014 *Graduate Teaching Assistant: Introduction to Criminology, Law & Society (Dr. William Thompson) University of California – Irvine, Criminology, Law & Society Department.*

PROFESSIONAL EXPERIENCE

Research Lab Affiliations

- 2015- present Irvine Simulation & Modeling Laboratory

Departmental Service

2015- 2016 Graduate Representative for Criminology, Law & Society Ph.D. students

Referee Activities

2016- present *Criminology*
2017- present *Justice Quarterly*
2017- present *Accident Analysis and Prevention*
2018- present *Punishment & Society*

PROGRAMING LANGUAGES AND PLATFORMS

SAS	SAS SIMULATION STUDIO	STATA	R
SQL	SPSS	NVIVO	LINUX(BASIC)
MAPLE	LaTeX	SCA	STAN

PROFESSIONAL AFFILIATIONS

American Society of Criminology	2013-Present
American Statistical Association	2016-Present
Association for Criminal Justice Reform - California	2013-Present
Western Society of Criminology	2014-Present