

# MICHAEL TOPPER

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Current as of October 18, 2024

## CURRENT POSITION

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**SSRC Criminal Justice Innovation Postdoctoral Fellow:** *UC Irvine Affiliation*

Current

## EDUCATION

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**University of California, Santa Barbara:** *PhD Economics*

2024

**San Diego State University:** *M.A. Economics*

2018

**University of California, San Diego:** *B.S. Mathematics/Economics*

2015

## PUBLICATIONS

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### **The Effects of Fraternity Moratoriums on Alcohol Offenses and Sexual Assaults**

*Forthcoming: Journal of Human Resources*

2023

I exploit variation in timing from 44 temporary university-wide halts on all fraternity activity with alcohol (moratoriums) across 37 universities over 2014-2019. I construct a novel data set, merging incident-level crime logs from university police departments to provide the first causal estimates of the effect of moratoriums on reports of alcohol offenses and sexual assaults. In particular, I find robust evidence that moratoriums decrease alcohol offenses by 26%. Additionally, I find suggestive evidence that moratoriums decrease reports of sexual assault on the weekends by 29%. However, I do not find evidence of long-term changes once the moratorium is lifted.

## RESEARCH IN PROGRESS

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### **Job Market Paper: “The Unintended Consequences of Policing Technology: Evidence from ShotSpotter”** (with Toshio Ferrazares)

Technology is integral to police departments, automating officer tasks, but inherently changing their time allocation. We investigate this by studying ShotSpotter, a technology that automates gunfire detection. Following a detection, officers are dispatched to the scene, thereby reallocating their time. We leverage this shock to officers’ time allocation using the rollout of ShotSpotter across Chicago police districts to study the effects on 911 call response. We find substantial consequences—officers are dispatched to calls slower (23%), arrive on-scene later (13%), and the probability of arrest is decreased 9%. Consequently, police departments must evaluate their resource capacities prior to implementing technologies.

### **In Progress: “Gunshot Noise and Birth Outcomes”** (with Anna Jaskiewicz)

Gun violence is ubiquitous across the United States, with gun-related deaths reaching an all-time high in 2021. The prevalence of gunfire results in loud and potentially stress-inducing sounds, which may adversely affect critical stages of in utero development. However, gunfire is largely unreported, creating a unique challenge for researchers to understand its consequences. In this paper, we mitigate this shortcoming by leveraging data from ShotSpotter—an acoustic gunshot technology which uses an array of sensors placed on city structures to detect the sound of gunfire. We combine this unique data source with the universe of births from nine California cities, each matched to a mother’s residence. Using the variation in gunfire detections from ShotSpotter at the census-block level, we employ a difference-in-differences methodology and find that gunshot noise creates substantial increases in very low birth weight (< 1,500 grams) and very pre-term births (< 32 weeks). These effects are driven by times of the day when mothers are likely to be at-home, and are particularly concentrated among mothers with low levels of education. These results suggest that gunshot noise is a major factor contributing to the income inequities in pregnancy outcomes.

## TEACHING EXPERIENCE

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**Instructor of Record:** *University of California Santa Barbara and San Diego State University*

- Econ 199RA Data Hack - (UCSB: Spring 2022, Winter 2024)

- Introductory Microeconomics - (SDSU: Fall 2017/Spring 2018)

**Teaching Assistant:** *University of California, Santa Barbara and San Diego State University*

- Introductory Microeconomics- (UCSB: Fall 2018/Winter 2019)
- Introductory Macroeconomics - (UCSB: Spring 2019, 2020, 2023/Winter 2022, 2023)
- Introductory Econometrics A - (UCSB: Fall 2019/Winter 2020/Summer 2021)
- Introductory Econometrics B - (UCSB: Summer 2023)
- Data Wrangling in Economics - (UCSB: Fall 2020, 2021, 2022)
- Public Finance - (UCSB: Spring 2024)
- Introduction to Research in STEM, Humanities, and Social Sciences - (UCSB: Summer 2023)
- Introductory Microeconomics - (SDSU: Fall 2016)
- Introductory Econometrics - (SDSU: Spring 2017)

**Course Curriculum Creator:** *University of California, Santa Barbara*

- Main contributor of course curriculum for Econ 145: Data Wrangling in Economics and its graduate counterpart, Econ 245, using the R programming language.

**Undergraduate Research Advisor:** *University of California Santa Barbara*

- Advisor for student Terry Cheng for undergraduate economics research.

**Advanced Math Lab Tutor:** *Santa Barbara City College*

- Tutored Calculus for Engineers I-III, Linear Algebra, Differential Equations, and Elementary Statistics at Santa Barbara Community College's walk-in mathematics lab.

## TEACHING RECOGNITION

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**Academic Senate Outstanding Teaching Assistant:** *University of California, Santa Barbara*

- Nominated: Fall 2019 (Introductory Econometrics)
- Nominated: Fall 2020 (Data Wrangling for Economics)

**GSA Excellence in Teaching Award:** *University of California, Santa Barbara*

- Nominated: Fall 2022

**UCSB Economics Department Teaching Award:** *University of California, Santa Barbara*

- Awarded: Fall 2021

## TEXTBOOK

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**Data Wrangling for Economists** (with Danny Klinenberg)

- This textbook (see [here](#)) was written as a guide for economists in both the undergraduate and PhD program to assist with the courses Econ 145/245. The book is a free online source, and is constantly undergoing revision.
- Chapter 8 used in CSU San Luis Obispo course: GSE 570 Collaborative Software Development for Economists

## SOFTWARE

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**R Package: panelsummary**

- Creates publication-quality regression tables that have multiple panels. Available on CRAN. Over 4.5k downloads. Click [here](#) for the package website.

## ACADEMIC RECOGNITION

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**M.C. Madhaven Prize Outstanding Graduate Student:** *San Diego State University*

- Awarded annually by the San Diego State Department of Economics to the Outstanding Graduating Masters Student.

**The Weintraub Paper Award:** *San Diego State University*

- Excellence in writing about Economics: “Do Donald Trump Rallies Cause More Violence?”

**Terhune Scholarship:** *San Diego State University*

## PRESENTATIONS

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V.I.C.E. Seminar	2024
Chicago Crime Lab	2024
Western Economic Association	2023
All-California Labor Conference	2023
San Diego State Economics Department Seminar	2023
Applied UCSB Microeconomics Lunch	2023

## WORK EXPERIENCE

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Research Assistant for Dr. Heather Royer: <i>University of California, Santa Barbara</i>	2020 - 2021
Appfolio: <i>Value Added Services: SaaS Intern</i>	2015 - 2016
Research Assistant for Dr. Steve Levkoff: <i>University of California, San Diego</i>	2014 - 2015

## REFERENCES:

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**Professor Heather Royer**  
UC Santa Barbara  
*Committee Chair*  
(805) 893-8830  
[royer@econ.ucsb.edu](mailto:royer@econ.ucsb.edu)

**Associate Professor Kevin Schnepel**  
Simon Fraser University  
*Committee Member*  
N/A  
[kevin\\_schnepel@sfu.ca](mailto:kevin_schnepel@sfu.ca)

**Professor Dick Startz**  
UC Santa Barbara  
*Committee Member*  
(805) 893-2895  
[startz@ucsb.edu](mailto:startz@ucsb.edu)

## ADDITIONAL INFO

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**Technical:** R, Python, ArcGIS, L<sup>A</sup>T<sub>E</sub>X, STATA, MatLab

**Areas of Focus:** Economics of Crime, Health Economics, Labor Economics

**Out of Office:** Personal Food Critic, One-man Rock Band, Basketball Extraordinaire