

# Bertrand Wilden

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PhD Student, Political Science  
University of California San Diego

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## Education

PhD Political Science (UC San Diego)	2019 –
MA Political Science (UC San Diego)	2021
BA Political Science, <i>summa cum laude</i> (UC San Diego)	2018
AA (Los Angeles Harbor College)	2016

## Research Interests

Race and Ethnic Politics · Ethics in AI/Machine Learning · Bayesian Modeling · Causal Inference

## Current Projects

**Improved Bayesian Ethnorace Prediction.** I develop a method for imputing individual level race/ethnicity using Bayes' Rule. When validated against self-reported race/ethnicity, my method vastly out-performs existing methods across a wide range of predictive metrics. I demonstrate that my method uncovers substantively-large racial disparities in real world applications that are not apparent when using predictions from older methods. Implementation is made easy by an open source software package in R <https://github.com/bwilden/bper>

**Interest Group Ideal Points**, with Nhat-Dang Do. We estimate latent political ideology scores for interest groups lobbying in the California state legislature using a bespoke hierarchical Bayesian item-response theory model. We incorporate the latest modeling techniques from the Bayesian statistics literature to improve accuracy and validity of our results relative to previous ideal point estimation methods.

**A Constitutive Causal Theory of Race.** Most social science research purporting to examine the effect of one's race on an outcome implicitly uses a theoretically incoherent understanding of race. Under the widely-accepted constructivist understand of race, it is impossible to isolate the "effect" of race as required by classic counterfactual causal inference paradigms. In this project I critique existing quantitative methods using race and offer an alternative framework which incorporates race's constitutive elements. These constitutive elements are identified empirically using a structural learning algorithm to find the Markov Blanket surrounding the race variable in a particular data set.

## Software Packages

bper: Bayesian Prediction for Ethnicity and Race <https://github.com/bwilden/bper>

## Teaching

DISCUSSION SECTION LEADER

Big Data Analytics (*graduate*); Quantitative Methods (*graduate*) [Lab Code](#); Machine Learning for Social Sciences

## GRADER

Senior Honors Seminar; Algorithms, Public Policy, and Ethics; British Politics; Political Inquiry (x2); Voting Rights Act 50 Years Later; Quant Analysis/Congress Politics; European Integration

## Research Assistance

Replication of *The Political Consequences of External Economic Shocks: Evidence from Poland* (2020). John Ahlquist, Mark Copelovitch, Stefanie Walter. <https://doi.org/10.1111/ajps.12503>

Center for Commerce & Diplomacy (UC San Diego)

2020

## Languages

R, Python, LaTeX, Stata