Felipe Diaz Klaassen

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EDUCATION

University of Illinois Urbana-Champaign *August 2015 – May 2023*
Ph.D. in Economics *Urbana, IL*
STEM, Quantitative Economics and Econometrics after 2016

Research: *"Essays on the Design of Criminal Justice Institutions,"* Used quasi-random assignment of judges, along with Jackknife IV, LIML, and LASSO IV, to address first-stage overidentification and estimate causal effects of alternative criminal punishments. Characterized treatment effect heterogeneity using generic machine learning inference. Extended traditional model of bargaining under imperfect information to study the trade-offs of trial length.

Fields: Labor Economics, Applied Microeconomics, Political Economy

University of Chile *August 2013 – May 2015*
M.S. in Economics *Santiago, Chile*

Master's Thesis: "Costly Information Acquisition and Voluntary Voting"
Major GPA: 6.5/7.0 (equiv 4.0/4.0), Maximum Distinction

B.S. in Industrial Engineering | Major GPA: 6.1/7.0 (equiv 4.0/4.0), Maximum Distinction

PROFESSIONAL EXPERIENCE

Banco de Crédito e Inversiones (BCI) *January 2015 – July 2015*
Process Engineer, *Risk Management Team* *Santiago, Chile*

- Development of trading desks' manuals for Volcker Rule compliance.

IM Trust *August 2012 – July 2013*
Analyst, *Strategy Department* *Santiago, Chile*

- Asset allocation with multi-factor models and Black-Litterman approach using Bloomberg API, Matlab and VBA.
- Assess portfolio risk exposure with VaR using Matlab.

ACADEMIC EXPERIENCE

University of Illinois Urbana-Champaign

Teaching Assistant *of "Big Data Analytics,"* Gies College of Business *January 2020 – present*
Urbana, IL

- Topics covered: data visualization, machine learning, regression analysis, randomized trials, LASSO, Trees, Random Forests, Boosting, Neural Networks, A/B testing, R programming within AWS.

Research Assistant, *Department of Economics* *May 2016 – present*
Urbana, IL

- Heterogeneous treatment effects estimation using various Metalearners (S-, T-, X-, and R-Learners) as well as RATE metrics to compare different treatment allocation schemes.
- Solve dynamic model of the production of health and mortality using Nelder-Mead with soft constraints and simulated annealing, in Matlab and R.
- Built and geocoded panel dataset of FOIA'd firearms licenses and gun-related accidents using Stata and Python.
- Causal inference with few clusters (wild cluster bootstrap/score bootstrap) using Stata.

SKILLS

- R (Advanced), Stata (Advanced), Python, Matlab, Java, SQL, TensorFlow, LaTeX
- Econometrics, Causal Inference, Machine Learning, Web Scraping, Data Visualization
- RCTs, Difference-in-Differences, Synthetic Control, Regression Discontinuity, LASSO, Double ML, Metalearners

RESEARCH

- Crime and (Monetary) Punishment
- Quorum Rules in a Multiple-Issue Referendum (with Ricardo Piqué)
- Value-Added in the Criminal Justice System (with Rebecca Thornton)
  Empirical Bayes estimation of value added by defense attorneys.
- Police Violence and Crime (with Jennifer Doleac, Anna Kyriazis, and Kelsey Pukelis)
  Python script chain linking Google trends to make them comparable across time and space.

SCHOLARSHIPS AND AWARDS

- Graduate Fellowship, Department of Economics, UIUC
- Summer Research Award, Department of Economics, UIUC
- List of Teachers Ranked as Excellent, UIUC

LANGUAGES

- English (fluent)
- Catalan (intermediate)
- Spanish (native)

REFERENCES

Professor Rebecca Thornton	Professor Alexander Bartik	Professor Benjamin Marx
rebeccat@illinois.edu	abartik@illinois.edu	benmarx@illinois.edu