

Colin Reinhardt

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PRINCIPAL INTERESTS Industrial Organization, Regression Analysis (Fixed Effects, Dif-in-Dif, etc.), Counterfactual Analysis (Mergers, Bans, Taxation), Financial risk modeling, Forecasting.

ACADEMIC BACKGROUND **Ph.D. [University of California, Irvine](#)** 2023
Economics
Dissertation: *Essays on Consumer Demand Modeling*.

M.A. [University of Texas at Austin](#) 2018
Economics
No Thesis Requirement.

B.A. [High Point University](#) 2015
Major: *Communications*, Minors: *Economics and Marketing*
Cum Laude | Dean's List | Freshman Class Representative

RESEARCH PAPERS **“Flavorants and Addiction: An Empirical Analysis of Tobacco Product Bans and Taxation.”** with Jiawei Chen.
Job Market Paper [Available here: [Link](#)]
Awarded: Charles A. Lave Paper Prize.

“Substitution Patterns and Welfare Implications of Local Taxation: Empirical Analysis of a Soda Tax,” with Jiawei Chen and Saad Andalib Syed Shah.
Working paper [Available here: [Link](#)]

“Money and Politics: A Double-Debiased Examination of 2018 House Election Campaign Contributions.”
Work in progress

“A Choice-Based Examination of Healthy Food Labeling.”
Work in progress

“Two-Stage Structured Probit Demand Estimation for Application to Large Choice Sets.”
Work in progress

PAPER / VIDEO PRESENTATIONS

- American Economic Association Annual Meeting, San Antonio, January 2024 (Forthcoming)
- University of Oklahoma, September 2023
- Annual Conference of the European Association for Research in Industrial Economics, Rome, August 2023
- Santa Clara University, May 2023
- Australasian Meeting of the Econometric Society (virtual), University of Queensland, July 2022
- *Modern Demand Estimation*: Video series detailing and explaining the BLP method of demand estimation.

EXPERIENCE **Principal Quantitative Modeler,** August 2023 - Present
[Capital One](#) McLean, Virginia

- Serving as an expert in the design of account level predictive models of consumer behavior for the purposes of CCAR, CECL, and risk management; with experience in data collection and exploration, model development and implementation, and documentation.
- Significantly reduced model runtime by implementing a lossless compression algorithm in our logistic model pipeline.
- Communicated results of advanced analytical techniques to stakeholders from various backgrounds.
- Contributed to the production of model white papers for review by internal and federal oversight.

PhD Candidate, August 2018 - June 2023
[University of California, Irvine](#) Irvine, California

- Designed structural models to determine consumer and firm behavior in examining counterfactual scenarios including product bans, taxation, and mergers.
- Evaluated the proposed FDA menthol ban; incorporating addiction and heterogeneity, and demographic attributes in a demand and supply model framework, for which I was awarded the Charles A. Lave Paper Prize.
- Developed a structural model that integrates geographic and product substitution to analyze the localized beverage taxation on consumer and firm behavior.
- Determined relevant demand elasticities, market equilibrium, and optimal pricing strategies while evaluating consumer and firm response.
- Employed advanced causal inference techniques in Stata, Matlab, and R.

Teaching Assistant, August 2018 - June 2023
[University of California, Irvine](#) Irvine, California

- Graduate Teaching Assistant for introductory and advanced courses in undergraduate microeconomics.
- Lead discussion sections, prepared and presented lectures, graded, and administered exams.

Independent Consultant, Summer 2016
[Roper St. Francis Healthcare](#) Charleston, South Carolina

- Created an original research report using statistics based arguments which supported the opening of a new hospital in a previously un-served community.
- Planned and carried out the collection of data required for the analysis of locational factors influencing household health.

Assistant to the Director, Summer 2015
[North Coast Economics](#) Cleveland, Ohio

- Provided economic research support and data collection, in addition to performing regression models relevant to ongoing casework.

Summer Associate,
[Berkeley Research Group](#)

Summer 2014
Washington, D.C.

- Collected and cleaned data, and assisted in a schedule and delay analysis regarding claims by a contractor concerning the construction of the U.S. Consulate Compound, Mumbai, India.
- Produced written summaries of new and proposed governmental regulations, and their impact on current client practices.
- Aided directors in the preparation of materials supporting upcoming expert testimony.

**AWARDS
& HONORS**

Charles A. Lave Paper Prize Award, UC Irvine
Summer Research Fellowship, UC Irvine

2023
2019-2022

SKILLS

Computational Programs

- Python | Pyspark | STATA | MATLAB | R | MS Excel

Word Processing Programs

- L^AT_EX | MS Word | Beamer | MS PowerPoint

Statistical Methods & Machine Learning

- Hypothesis Testing | Structural Modeling | Discrete Choice | Reduced Form Regressions | Panel Analysis | Time Series Analysis | Bayesian Econometrics | Non-Parametric Modeling | Synthetic Control | Logistic and Probit Models

REFERENCES

[Jiawei Chen](#), Associate Professor of Economics, at UC Irvine
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[Ivan Jeliazkov](#), Associate Professor of Economics, at UC Irvine
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[David Brownstone](#), Professor Emeritus of Economics, at UC Irvine
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