

# Adam Baybutt

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## Education

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|-----------|--|
| 2018-2023 | PHD in Economics, UCLA<br><i>Thesis Title:</i> Essays in High-Dimensional Econometrics and Empirical Crypto Asset Pricing<br><i>Committee:</i> Denis Chetverikov (chair), Valentin Haddad, Andres Santos, Pierre-Olivier Weill |
| 2018-2020 | MA in Economics: Asset Pricing and Econometrics, UCLA  |
| 2016-2017 | Advanced Study Program, Massachusetts Institute of Technology (MIT)  |
| 2011-2012 | MS in Biomedical Engineering: Neuroengineering, University of Southern California (USC)  |
| 2011      | Semester Abroad in Bioengineering, National University of Singapore  |
| 2008-2012 | BS in Biomedical Engineering, minor in Business, USC   |

## Research

### WORKING PAPERS

[Model Assisted Inference for Conditional Average Treatment Effects with High Dimensional Controls](#) (w/ Manu Navjeevan)

### IN-PROGRESS

Empirical Crypto Asset Pricing with High-Dimensional Factor Models (JMP)  
[Competing Fiat Moneys and Nominal Rigidities](#) (w/ Basil Halperin and J. Zachary Mazlish)  
[Monetary policy, asset prices, credit, and the real economy](#) (w/ Jesper Bojerdy)

## Professional Experience

### EMPLOYMENT

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|------|--|
| 2022 | Quantitative Researcher, Krypton Protocol <ul style="list-style-type: none"><li>· Researched trading costs in decentralized exchanges (DEXs) using Uniswap and CEX trade-level data.</li><li>· Built simulations of optimal market-making strategies in Krypton's novel DEX setting.</li></ul> |
| 2021 | PhD Summer Intern in Investment Strategy, Dimensional Fund Advisors <ul style="list-style-type: none"><li>· Built machine learning models (e.g. GBDT, neural nets) to inform investment strategy research.</li></ul>   |
| 2019 | Research Fellow, Y Combinator Research <ul style="list-style-type: none"><li>· Collaborated with Sam Altman to articulate directions for crypto research and startups.</li><li>· Consulted on a randomized controlled trial (RCT) of US-based basic income.</li></ul>                          |

- 2016-2018 Research Associate, MIT
  - Built GBDT models in Medicare data. [RA for QJE by Obermeyer and Mullainathan](#).
  - Analyzed healthcare delivery RCTs led by [Kate Baicker \(JAMA\)](#) and [Amy Finkelstein \(NEJM\)](#).
- 2015-2016 Biostatistician, Cepheid
  - Designed and analyzed molecular diagnostic clinical trials for (FDA) regulatory registration.
- 2014-2015 Program Manager, Cepheid
  - Led and managed product development teams for oncology molecular diagnostics.
- 2012 Engineering Co-Op, Abbott Laboratories – Abbott Medical Optics
- 2012 Engineering Intern, Abbott Laboratories

#### AFFILIATIONS

- 2020-2021 Research Scholder, Ziman Center for Real Estate, UCLA
- 2011 The BioRC Biomimetic Real-time Cortex Project, Undergraduate Researcher, USC
- 2010 Undergraduate Research Engineer, Center for Neural Engineering, USC
- 2010 Summer Research Intern, Medical Device and Development Facility, USC

### Teaching

- 2019- Teaching Fellow, UCLA
  - Probability and Statistics for Econometrics (PhD)
  - Machine Learning and Big Data for Economists (Masters)
  - Exchange Rate Forecasting, Big Data, and Portfolio Design (Masters) (x2)
  - Machine Learning (Masters)
  - Computational Finance and Data Analysis for Financial Engineering (Undergraduate)
  - Introduction to Econometrics (Undergraduate) (x3)
  - Investments (Undergraduate)
  - Probability and Statistics for Economists (Undergraduate)
  - Intermediate Microeconomics (Undergraduate)
- 2018-2021 Course Leader, Emeritus Institute of Management
  - Applied Artificial Intelligence, Columbia University
  - Applied Machine Learning, Columbia University (x4)
  - Python for Data Science, Columbia Business School
  - Python for Managers, Columbia Business School (x6)
  - Blockchain to Business: Beyond the Hype, Columbia Business School
- 2012 Teaching Assistant, USC
  - Introduction to Biomaterials and Tissue Engineering

### Accepted Financial Awards

- 2021 UCLA Graduate TA Award (voted top TA for graduate courses by department)
- 2021 MIT Shultz Fund (w/ Basil Halperin)
- 2020-2021 UCLA Ziman Center for Real Estate Grant (w/ Jesper Bojeryd)
- 2020-2021 Institute for Humane Studies – Humane Studies Fellow
- 2020 UCLA Economics Departmental Teaching Award for Excellence in Remote Learning
- 2020 UCLA Centennial Fellowship
- 2018-2020 UCLA Graduate Dean Scholar Award

2019 Cato Institute's Alternative Money University  
2018-2019 UCLA University Fellowship  
2016-2017 MIT Advanced Study Program  
2008-2012 USC University Grant

Last updated: January 18, 2023