Senan Hogan-Hennessy

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Economist with 4+ years experience in academia, and experience in industry. Experience with statistical methods for causal inference, in observational and randomization settings, empirical labor economics, and programming languages such as Python (pandas, scikit-learn, NetworkX) and R (tidyverse, ggplot2, XGBoost).

Education

Ph.D. Economics, Cornell University, NY **2020–present**

- Research studying the determinants of faculty hires and salaries (labor economics), and statistical methods for causal analysis in observational settings (applied econometrics). Details on all projects, including working papers, available here.
- Lead collaborative project using econometric + causal methods as part of a computer science-focused team at NYU, see here.
- Graduate coursework in econometrics, machine learning, and computer science. Academic C.V. available here.

B.A. Economics + mathematics (statistics focus), Pomona College, CA **2018**

Professional Experience

Data Science Intern, The Behaviouralist, London UK **2020**

- Designed and implemented a fuzzy-matching process to combine two databases of UK business activity based on street addresses, and presented results to consultancy stakeholders.
- Data-lead for consultancy and academic-focused projects.

Research Associate, Harvard Business School, MA **2018–2019**

- Developed a Python tool to probabilistically match multiple historical databases, using ancestry-based graph data to link administrative records.
- Research assistant to Professor Daniel Gross on multiple academic research projects, including code-base maintenance on a customized Unix server.

Technical Skills & Other Information

- Causal inference: methods to causally analyze treatment effects and heterogeneity analysis (diff-in-diff, regression discontinuity, IV, randomization, etc.)
- Python: Pandas+numpy (data structures), matplotlib (visualization), scikit-learn+SciPy (ML+ optimization), NetworkX (graph data), requests+selenium (web scraping)
- R: Tidyverse (general purpose), ggplot2 (visualization), XGBoost+caret (ML)
- Programming: SQL, Julia, experience with Git and Bash
- Citizenship: United Kingdom
- Personal Interests: Road cycling and racing, open source software