

Steven Ellis

Education

Brown University, Applied Psychology A.B. 2011, *magna cum laude*

Experience

Executive Office of The President of the United States Data Scientist 1/2023 – 6/2023

- Tour of duty with the United States Digital Service, the White House's in-house tech team.
- Identified gaps in reporting, produced the first comprehensive analysis of federal funding for Puerto Rico (for Office of Intergovernmental Affairs, Domestic Policy Council, Office of Science and Technology Policy, and Department of Commerce).

GoBuild (defunct) Second Employee 7/2020 – 6/2021

- Ideated and developed pre-seed startup's product, an AI/ML (R, XGBoost) tool which estimated effect of renovations on sales price.
- Led acquisition of home purchase data, computer vision API, and other miscellaneous datasets.
- Contributed to successful YCombinator application and subsequent funding round.

Divvy Homes Head of Data Science 9/2018 – 6/2020

- Developed Series A/B startup's first home pricing and credit AI/ML services (R, ensemble XGBoost / KNN).
- Developed AI/ML service APIs, monitoring, and error-handling (R, Python), deployed to production (Github, Heroku).
- Developed and implemented policies to re-balance riskiness of home and tenant portfolio.
- Hired and managed two data scientists, roadmapped and directed projects.
- Engaged with equity and debt investors before, during, and after successful funding round.
- Led acquisition of home purchase data.

Uber Data Scientist 5/2014 – 12/2016

- Sixth data scientist, served as company-wide experimentation expert, wrote guide to mobile experimentation.
- Introduced variance reduction to marketplace experimentation (R, Python, ensemble Random Forest / high-dimensional matching), pioneering causal inference methods at Uber.
- Launch member of Uber API, quantified value of partnerships using Random Forest (Python).
- Launch member of experimentation platform ("Morpheus"), identified and analyzed root-cause of hazardous flaws in infrastructure.

Alphabet (then Google) Quantitative User Experience Researcher 4/2011 – 4/2014

- Guided Google Fiber rollout by applying high-dimensional matching to census data (R) - <https://research.google/pubs/pub41379/>.
- Developed, deployed, and analyzed custom pricing survey to determine Google Fiber signup fee.
- Built interactive, live choropleth to track Google Fiber rollout.
- Guided Google Fiber SMB pricing using Choice-Based Conjoint analysis and co-developed open-source Rcbc package (R) - <https://research.google/pubs/pub41381/>.
- Mined ad data to guide Google Identity Platform partnerships team (R, Python, Dremel).
- Directed in-person research and followed up with production experiments on Single Sign-On product.