

Luna Yue Huang

- CONTACT** 714 University Hall 510-701-3560
University of California, Berkeley, CA 94720 yuehuang@berkeley.edu
Homepage: <http://luna-yue-huang.com>
- INTERESTS** **Economics:** Causal Inference; Experimentation; Spatial Econometrics;
Machine Learning: Computer Vision; Object Detection and Segmentation;
Geospatial Analysis: Remote Sensing; Geospatial Machine Learning.
- EDUCATION** **University of California, Berkeley**
Ph.D. in Development Economics
Advisors: Edward Miguel, Marco Gonzalez-Navarro, Solomon Hsiang; GPA: 3.8
- EXPERIENCE** **Google X**
Data Scientist (Part-time) Aug–Dec 2020
Artificial Intelligence Resident (Full-time) May–Aug 2020
- Collaborated closely with a multi-disciplinary team of engineers, researchers, strategy consultants and project managers on a confidential project.
 - Ingested, harmonized, and feature-engineered over 150 billion raw data records in 22 disparate datasets from Google internal and external sources (with Python & SQL).
 - Initiated and pursued data partnership with 4 internal teams, and 2 external companies.
- University of California, Berkeley**
Graduate Student Researcher 2016–2021
Ph.D. Dissertation: My research leverages satellite/aerial imagery and machine learning models (e.g., xgboost, DeepLab, and Mask RCNN) to
- recreate the earliest high-resolution map of human settlement patterns in the 1940s–70s and study climate change induced migration in the last century; → [GitHub](#) (Python)
 - estimate the effects of a cash assistance randomized controlled trial with remotely-sensed wealth indicators, dramatically reducing program evaluation costs; → [GitHub](#) (Python & R)
 - reconstruct manipulated historical air pollution data in China and study the impacts of improved environmental monitoring on air quality. → [GitHub](#) (Python & R)
- PUBLICATION** **Nature, 2020.** “The Effect of Large-scale Anti-contagion Policies on the COVID-19 Pandemic” with S. Hsiang, D. Allen, S. Annan-Phan, K. Bell, I. Bolliger, T. Chong, H. Druckenmiller, A. Hultgren, E. Krasovich, P. Lau, J. Lee, E. Rolf, J. Tseng & T. Wu.
- Covered in 323 news stories by outlets including CNN, the Washington Post, New York Times, NPR, and Reuters.
 - Ranked #22 among 3.4 million works in the “Top 100 Most Discussed Articles in 2020” by Altmetric.
 - Used by the White House Office of Management and Budget & the CDC.
- Annual Review of Economics, 2019.** “Using Randomized Controlled Trials to Estimate Long-Run Impacts in Development Economics” with A. Bouguen, M. Kremer & E. Miguel.
- SKILLS**
- **Python** (+ PyTorch), **R**, **SQL** (Google BigQuery), **D3.js**;
 - Google Cloud Platform, Azure, Docker, Bash, Git, LaTeX.

Last Updated: April 21, 2021