

Luna Yue Huang

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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 PhD in Development Economics (Expected Graduation: 2021) Advisors: Edward Miguel, Marco Gonzalez-Navarro, Solomon Hsiang; GPA: 3.8	
EXPERIENCE	Google X Data Scientist (Part-time) Aug–Dec 2020 Artificial Intelligence Resident May–Aug 2020 <ul style="list-style-type: none">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 PhD Dissertation: My research leverages satellite/aerial imagery and machine learning models (e.g., xgboost, DeepLab and Mask RCNN) to <ul style="list-style-type: none">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. <ul style="list-style-type: none">Covered in 323 news stories by outlets including CNN, the Washington Post, New York Times, NPR, and Reuters.Cited 138 times within 3 months of publication.Used by policy makers in 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	<ul style="list-style-type: none">Python (+ PyTorch), R, SQL (Google BigQuery), D3.js;Google Cloud Platform, Azure, Docker, Bash, Git, LaTeX.	

Last Updated: September 11, 2020