

## Luna Yue Huang

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INTERESTS	<b>Economics:</b> Causal Inference; Experimentation; Spatial Econometrics; <b>Machine Learning:</b> Computer Vision; Object Detection and Segmentation; <b>Geospatial Analysis:</b> Remote Sensing; Geospatial Machine Learning.	
EDUCATION	<b>University of California, Berkeley</b> <b>Ph.D. in Development Economics (Expected Graduation: 2021)</b> Advisors: Edward Miguel, Marco Gonzalez-Navarro, Solomon Hsiang; GPA: 3.8	
EXPERIENCE	<b>Google X</b> <b>Data Scientist</b> (Part-time) Aug–Dec 2020 Artificial Intelligence Resident May–Aug 2020 <ul style="list-style-type: none"><li>Collaborated closely with a multi-disciplinary team of engineers, researchers, strategy consultants and project managers on a confidential project.</li><li>Ingested, harmonized, and feature-engineered over 150 billion raw data records in 22 disparate datasets from Google internal and external sources (with Python &amp; SQL).</li><li>Initiated and pursued data partnership with 4 internal teams, and 2 external companies.</li></ul> <b>University of California, Berkeley</b> 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 <ul style="list-style-type: none"><li>recreate the earliest high-resolution map of human settlement patterns in the 1940s–70s and study climate change induced migration in the last century; → <a href="#">GitHub</a> (Python)</li><li>estimate the effects of a cash assistance randomized controlled trial with remotely-sensed wealth indicators, dramatically reducing program evaluation costs; → <a href="#">GitHub</a> (Python &amp; R)</li><li>reconstruct manipulated historical air pollution data in China and study the impacts of improved environmental monitoring on air quality. → <a href="#">GitHub</a> (Python &amp; R)</li></ul>	
PUBLICATION	<b>Nature, 2020.</b> “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"><li>Covered in 323 news stories by outlets including CNN, the Washington Post, New York Times, NPR, and Reuters.</li><li>Cited 138 times within 3 months of publication.</li><li>Used by policymakers in the White House Office of Management and Budget &amp; the CDC.</li></ul> <b>Annual Review of Economics, 2019.</b> “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"><li><b>Python</b> (+ PyTorch), <b>R</b>, <b>SQL</b> (Google BigQuery), <b>D3.js</b>;</li><li>Google Cloud Platform, Azure, Docker, Bash, Git, LaTeX.</li></ul>	

Last Updated: September 11, 2020