

# Luna Yue Huang

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## RESEARCH INTERESTS

**Primary Field:** Development Economics.

**Secondary Fields:** Spatial Economics, Machine Learning.

## EDUCATION AND AFFILIATION

### University of California, Berkeley

*Ph.D. Candidate in Agricultural and Resource Economics*

Berkeley, CA

*Aug, 2016–Present*

Selected Courses:

Applied Econometrics

Applied Machine Learning

Probability and Statistics

Development Economics

Economic Geography

International Economics

Industrial Organization

Microeconomic Theory

### Global Policy Lab

*Doctoral Fellow*

Berkeley, CA

*Jan, 2020–Present*

### Center for Effective Global Action

*Research Assistant*

Berkeley, CA

*Jan, 2018–May, 2019*

### Peking University

*B.A. in Economics; B.S. in Environmental Science*

Beijing, China

*Aug, 2012–Jun, 2016*

## WORK EXPERIENCE

### X, the Moonshot Factory (Google X)

*AI (Artificial Intelligence) Resident*

Mountain View, CA

*May, 2020–Present*

## PUBLICATIONS

The effect of large-scale anti-contagion policies on the COVID-19 pandemic, *Nature* 2020 (joint with Solomon Hsiang, Daniel Allen, Sébastien Annan-Phan, Kendon Bell, Ian Bolliger, Trinetta Chong, Hannah Druckenmiller, Andrew Hultgren, Emma Krasovich, Peilei Lau, Jaecheol Lee, Esther Rolf, Jeanette Tseng, and Tiffany Wu).

Using RCT's to Estimate Long-Run Impacts in Development Economics, *Annual Review of Economics*, 11(1): 523–561, 2019 (joint with Adrien Bouguen, Michael Kremer, and Edward Miguel).

## WORKING PAPERS

Information, Incentives and Air Quality: New Evidence from Machine Learning Predictions (joint with Minghao Qiu)

## ONGOING PROJECTS

Measuring the Welfare Impacts of International Development Programs with Satellite Imagery and Deep Learning (Job Market Paper)

Understanding the Effects of Climate Change on Mass Migration Using 1.6 Million Historical Aerial Photographs (joint with Hannah Druckenmiller, Solomon Hsiang, Trinetta Chong, Alex Gao, Shruti Jain, Andreas Madestam, Nicklas Nordfors, Tommy Poa, and Anna Tompsett)

## RESEARCH EXPERIENCE

RA for Ellen Bruno, UC Berkeley	<i>Jan, 2020–May, 2020</i>
RA for Prof. Prashant Bharadwaj and Prof. Craig McIntosh, UC San Diego	<i>Jan, 2018–May, 2019</i>
RA for Prof. Edward Miguel, UC Berkeley	<i>Jun, 2017–Jan, 2018</i>
RA for Prof. Michael Anderson, UC Berkeley	<i>Aug, 2016–May, 2017</i>

## TEACHING EXPERIENCE

TA for Full-time MPP/MPA/PhD Spatial Data and Analysis (in Python) (GSPP 275)	<i>Fall 2019</i>
TA for Full-time MBA Microeconomics (MBA 201A)	<i>Fall 2018</i>
TA for Undergraduate Microeconomics (EEP 100)	<i>Fall 2017</i>

## PRESENTATIONS

Good Data Seminar (Apr 2020); UC Berkeley Development Economics Lunch (Mar 2020, Oct 2018); UC Berkeley Development Economics Workshop (Feb 2020, Mar 2019); American Geophysical Union Fall Meeting Oral Presentation (Dec 2019); UC Berkeley International Trade Lunch (Oct 2019, Apr 2019); UC Berkeley-Davis-Riverside Giannini Foundation Student Conference (Apr 2019, Apr 2018); 2nd Annual Symposium on Geospatial Analysis for International Development (Nov 2018).

## AWARDS AND GRANTS

East Africa Social Science Translation Collaborative Mentor Grant, Center for Effective Global Action	<i>2018</i>
Academic Creativity Award, Peking University	<i>2015</i>
Bajian Rencai Scholarship, Peking University	<i>2013, 2014, 2015</i>
Mao Yugang Foundation Grant for Undergraduate Research	<i>2014</i>
Wusi Scholarship, Peking University	<i>2013, 2014</i>

## SKILLS

**Data Scraping, Analysis and Visualization:** R, Python and SQL (Google BigQuery).

**Geospatial Analysis:** R, Python and QGIS.

**Deep Learning:** PyTorch.

**Miscellaneous:** Bash, Git, HTML5, LaTeX and Markdown.

## PROFESSIONAL SERVICES

**Conference Organizer** UC Berkeley-Davis-Riverside Giannini Foundation Student Conference (2020)

## REFERENCES

Edward Miguel  
Economics  
University of California, Berkeley  
emiguel@berkeley.edu

Marco Gonzalez-Navarro  
Agricultural and Resource Economics  
University of California, Berkeley  
marcog@berkeley.edu

Solomon Hsiang  
Public Policy  
University of California, Berkeley  
shsiang@berkeley.edu