

Zehao Calum You

Email: zehao@calumyou.com | Phone: +1 (650) 422-8876 | Updated: 1st August, 2019

Education

Stanford University

Master of Science in Civil and Environmental Engineering: Atmosphere/Energy

Selected Coursework:

- Climate and Agriculture · Fundamentals of Modelling · Climate Policy Analysis
- Atmospheric and Ocean Circulation · Fundamentals of Energy Processes

Bachelor of Arts with Honours in Economics

Selected Coursework:

- Statistical Inference · Real Analysis · Advanced Topics in Econometrics
- Environmental Economics · Development Economics · Economics of Education

Stanford, CA

Sep 14 – Jun 17

Sep 13 – Jun 17

Research and Experience

Uber Technologies, Inc.

Data Scientist (Research and Economics) with Elizabeth Mishkin and Jonathan Hall

- Conducts research on virtual restaurants, driver dispatch, price caps and data measurement error to understand the business and support policy goals
- Uses R, Python and SQL to query, process and analyse data
- Manages relationships with internal stakeholders as well as outside academic collaborators; communicating results to drive decision-making

San Francisco, CA

Jan 19 – present

Center for Food Security and the Environment

Research Data Analyst with Marshall Burke and David Lobell

- Worked on mapping smallholder agriculture and crop yields, developing a machine learning model to predict yields from remote sensing data
- Performed organisation, cleaning, tidying, visualisation, analysis, and package development tasks on geospatial data using R and Google Earth Engine

Stanford, CA

Sep 17 – Jan 19

Stanford University

Honours Thesis: Is California's Cap and Trade Failing Disadvantaged Communities?

- Addressed equity concerns about California's flagship carbon cap-and-trade program using spatially interpolated data from EPA air quality sensors
- I estimated a difference-in-difference model and found that cap and trade generally improved relative equity for five pollutants but worsened it for ozone
- Performed data management and geostatistics in Stata and ArcGIS

Stanford, CA

May 16 – Jun 17

Stanford Department of Economics

Research Assistant to Lawrence Goulder

- Reviewed literature and contributed text for book on federal climate policy

Stanford, CA

Jun 16 – Sep 16

Teaching Assistant for ECON 106/206: World Food Economy

- Taught section, held office hours, focused on quantitative modelling in Excel

Mar 17 – Jun 17

Publications

Smallholder maize area and yield mapping at national scales with Google Earth Engine. Zhenong Jin, George Azzari, Calum You, Stefania di Tommaso, Stephen Aston, Marshall Burke, and David Lobell. 2019. *Remote Sensing of Environment*, 228, 115-128.

Multiple approaches to evaluating satellite estimates of sorghum yield in West Africa. David Lobell, Stefania di Tommaso, Calum You, Ismael Yacoubou Djima, Marshall Burke, Talip Kilic. (in progress)

Skills

Programming and Software

R (tidyverse, sf, data.table) · Python (NumPy, pandas, scikit-learn) · SQL · LaTeX · Excel · Stata · JavaScript · Google Earth Engine · Git

Language

Fluent: English · Spoken Mandarin
Advanced: Chinese Literacy

Awards

Stanford in Government Summer Fellow 2015
Boothe Undergraduate Writing Prize Finalist 2014
UK RES Young Economist of the Year 2012
Eton College King's Scholar 2008
Eton College Junior Scholar 2005