

Zehao Calum You

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Experience

Uber Technologies, Inc.

Data Scientist (Policy, Research and Economics)

San Francisco, CA

Jan 19 – present

- Uses R, Python and SQL to query, process, and analyse billions of rows of data
- Maintains internal R packages and developer environment with 400+ active users
- Built a data pipeline to identify drivers who email opt out of arbitration
- Released a timely working paper studying effects of the COVID crisis on restaurants
- Analyzed price caps in India to understand their impacts on rider and driver welfare and marketplace health; compiled into blog post to influence policymakers
- Guided research strategy and release for four consultant restaurant studies
- Managed relationships with internal stakeholders as well as outside academic collaborators; communicating results to drive decision-making
- Identified discrepancies in time accounting affecting 4% of global driver hours
- Calculated driver earnings by time and location to power an Earnings Estimator product which created transparency and reduced churn for drivers

Center for Food Security and the Environment

Research Data Analyst

Stanford, CA

Sep 17 – Jan 19

- Wrote two papers on mapping smallholder agriculture and crop yields in Africa
- Developed machine learning models to eliminate the effect of clouds, classify land cover and crop types, and predict yields using satellite imagery
- Performed organisation, cleaning, tidying, visualisation, and analysis on household survey and petabyte-scale geospatial data using R, Python, and Google Earth Engine

California Governor's Office of Planning and Research

Policy Intern

Sacramento, CA

Jun 16 – Sep 16

- Wrote policy memoranda on the state of energy efficiency, soil carbon sequestration and forest management; outlining their relevance to the Governor's administration

Research and Publications

COVID and Digital Resilience: Evidence from Uber Eats

Preprint

June 2020

- Queried and analysed 12+ m orders to estimate the effects of shelter-in-place orders on small and medium-sized restaurants, accounting for demand and competition effects

Sight for sorghums: Comparisons of satellite- and ground-based sorghum yield estimates.

Remote Sensing

Jan 2020

- Tested accuracy of three satellite sensor yield estimates as compared to survey and crop-cut yield measures, and extended yield estimation to sorghum systems in Mali

Smallholder maize area and yield mapping at national scales with Google Earth Engine.

Remote Sensing of

Environment

May 2019

- Created "wall-to-wall" 10m resolution maps of cropland, crop type and maize yield across Kenya and Tanzania, leveraging low-cost remote sensing data

Is California's Cap and Trade Failing Disadvantaged Communities?

Honors Thesis

June 2017

- Constructed a statewide spatial air pollutant concentration panel dataset to address whether CA climate policy was exacerbating environmental injustices

Education

Stanford University

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

Stanford, CA

Sep 16 – Jun 17

Bachelor of Arts with Honors in Economics

Sep 13 – Jun 17

Skills

Technology: R · Python · SQL · Hadoop · Hive · Spark
· LaTeX · Excel · Stata · Google Earth Engine · Git · Bash

Language: English · Mandarin

Awards

Stack Overflow Top 0.72% 2019

Stanford in Government Summer Fellow 2015

Boothe Undergraduate Writing Prize Finalist 2014

UK RES Young Economist of the Year 2012