刘思凡 Sifan Liu

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Four years' research experience with 30+ publications on digitalization, startup ecosystems, small businesses, and urban economic development. Provided consultation for five regional economic development organizations on industry strategies. Experienced analyst adept at collecting, analyzing, and interpreting large datasets, developing predictive models, and performing data management tasks.

Education

Georgetown University
Washington, DC

MASTER OF PUBLIC POLICY, GPA 3.86
2014 - 2016

- Dean's Scholarship
- Thesis: An Econometric Analysis of the Influence of Public Instruments on Private Climate Finance

Shanghai Jiao Tong University
Shanghai

B.S., ECONOMICS, GPA 3.71
2010 - 2014

- Business Admin. International Exchange at McCombs School of Business, UT Austin

Experience

The Brookings Institution
Washington, DC

RESEARCH ANALYST, METROPOLITAN POLICY PROGRAM
2016 - current

- Analyzed 500,000 firm level data through CrunchBase API to study startup ecosystems across major U.S. metropolitan areas; applied text clustering to reduce tagging errors and identified AI-intensive companies; conducted network analysis to create startup complexity index.
- Constructed a time-series dataset of occupational digitalization scores based on changes in job requirements over time; developed the analytical model to measure the impact of digitalization on industries, jobs and wages in labor markets across the U.S.
- Researched landscape of capital flows to small businesses and its geographic distribution by aggregating and analyzing data from Small Business Administration, the Federal Deposit Insurance Corporation (FDIC), and Community Development Financial Institutions Fund (CDFI).
- Presented research findings at events and webinars; provided consultation for executives of federal agencies, city governments, and regional chambers of commerce on economic development strategies.
- Led the analytical work on multiple research-to-practice consulting projects with regional economic development organizations; produced data analysis, designed visualization, and conducted 50+ on-site interviews with key stakeholders.
- Developed an automated data pipeline to generate city profiles on regional demographic, economic and labor market trends from 30+ up-to-date public and private data sources, reducing research time by 80%.
- Built and maintained an R package to organize code and data for analyzing U.S. metropolitan areas; initiated and implemented code and data guideline to be adopted by the entire program and improved research reproducibility.
- Coordinated a team of three research assistants to create a searchable case study database of 100+ evidence-based local, regional and national policy solutions under a tight timeframe; received team bonus for exceptional performance.

Climate Policy Initiative
San Francisco, CA

ASSISTANT, CLIMATE FINANCE
2015 - 2016

- Reviewed financial mechanisms for urban sustainable development projects based on financing options, project types and market environment
- Designed and analyzed survey data from 16 national development banks in Latin America on climate investment activities.

Skills

Language: Mandarin, English, French, Spanish

Technical: R, Python, Stata, SQL, ArcGIS; Udacity Machine Learning Engineer Nanodegree

Interests : Oil painting, climbing