

# 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.*

## Experience

### The Brookings Institution

Washington, DC

RESEARCH ANALYST, METROPOLITAN POLICY PROGRAM

2016 - current

- Analyzed 500,000+ firm level data via 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; researched and summarised case studies of energy saving insurance models.
- Designed and analyzed survey data from 16 national development banks in Latin America on climate investment activities.

## 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

## Skills

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

Language: Mandarin, English, French, Spanish

Interests : Oil painting, climbing