

# Xiaofan Liang

✉ xiaofan.l@gatech.edu | [GitHub](#) | [Design Portfolio](#)

## EDUCATION

Georgia Institute of Technology  
*Ph.D. City and Regional Planning*  
Minerva Schools at KGI  
*B.S. Computer Science*  
University of California-Berkeley  
*B.A. Sociology*

## INTERESTS

Spatial Social Network  
Civic Data Science  
Social Flow/Trajectories  
Data Visualization  
Participatory Planning  
GeoAI

## SKILLS

Python (scikit-learn, etc.),  
R (tidyverse, ggplot, sf, etc.)  
Javascript (ReactJS, etc.),  
NetLogo, Mathematica,  
ArcGIS, Gephi, Illustrator.

## REWARDS

1<sup>st</sup> in 2019 Georgia Tech  
Transportation & GIS  
Hackathon  
  
Awarded 2020 Georgia  
Tech Data Science  
Research Scholarship

## PAPERS IN PROGRESS

(Submitted) **Xiaofan Liang**, Clio Andris. “Measuring McCities: Quantifying ‘Chainness’ of Foodscapes in the United States”, *Environment and Planning B: Urban Analytics and City Science*.

(Submitted) Ryan Taylor, **Xiaofan Liang**, Chris Kempes, Marion Dumas, Geoffrey West, Manfred Laubichler. “The Scalability, Efficiency, and Complexity of Universities and Colleges: A New Lens for Assessing the Higher Education System”, PloS one.

## RESEARCH EXPERIENCE

- |   |                                    |
|---|------------------------------------|
| <b>Georgia Tech - Friendly City Lab</b><br><i>Graduate Research Assistant</i>   | 08.2019 - now<br>Atlanta, GA       |
| <ul style="list-style-type: none"><li>○ Researched chain vs. independent restaurants distribution in the United States.</li><li>○ Researched the connectivity patterns and social support levels for different sociodemographic groups.</li></ul> |                                    |
| <b>MIT - China Future City Lab</b><br><i>Graduate Research Assistant</i>  | 06.2019 - now<br>Atlanta, GA       |
| <ul style="list-style-type: none"><li>○ Studied scaling properties of various spatial networks (e.g., mobility, social media) in China.</li></ul>   |                                    |
| <b>Santa Fe Institute</b><br><i>Research Experience for Undergraduates</i>  | 06.2017 – 12. 2018<br>Santa Fe, NM |
| <ul style="list-style-type: none"><li>○ Researched scaling properties of Universities in U.S. through power law statistics. <a href="#">Poster</a>.</li></ul>   |                                    |
| <b>Icosystem</b><br><i>Research Intern</i>  | 05.2016 – 07.2016<br>Berkeley, CA  |
| <ul style="list-style-type: none"><li>○ Built agent-based models in NetLogo to run simulations and drove the understanding of gender inequality in business organizations. Findings featured in <a href="#">Forbes</a>.</li></ul>                 |                                    |

## WORK EXPERIENCE

- |  |                                       |
|--|---------------------------------------|
| <b>Max Lab</b><br><i>Data Head</i>   | 05.2019 - now<br>Global               |
| <ul style="list-style-type: none"><li>○ Co-founded <a href="#">Max Lab</a>, an urban experiment lab focusing on futuristic urban challenges through contents curations, community challenges, and urban analytics.</li></ul> |                                       |
| <b>Youth Global Network - Project C</b><br><i>Software Development Intern</i>  | 01.2018 – 05.2018<br>Hong Kong, China |
| <ul style="list-style-type: none"><li>○ Built a new user interface front end of MIT AppInventor in ReactJS framework for teaching underserved youth.</li></ul>   |                                       |
| <b>Center of Applied Rationality</b><br><i>Research Volunteer</i>  | 05.2016 – 07.2016<br>Berkeley, CA     |
| <ul style="list-style-type: none"><li>○ Conducted literature reviews for the cognitive mechanisms behind group-scaled errors in decision-making.</li></ul>   |                                       |
| <b>1kg Box</b><br><i>Product Design Assistant</i>  | 05.2014 – 08.2014<br>Guangzhou, China |
| <ul style="list-style-type: none"><li>○ Designed course materials for rural teachers through human centered design process.</li></ul>  |                                       |

## FEATURED PROJECTS

(ArcGIS online) The History of Mapping Urban Poor in London ([link](#))  
(ArcGIS online) Urban Poverty Mapped by Vulnerability and Access ([link](#))  
(Leaflet, Web Map) Commuting Patterns in Georgia ([link](#))  
(Consulting) Chinese User Marketing Research for Airbnb ([link](#))  
(Consulting) Concept research for a digital cultural mall, the Boxx ([link](#))

(Causal Inference) Policy Evaluation for Dept. of Education, Argentina ([link](#))  
(NLP) Text Mining to Reveal Gender Bias in Parenting books ([link](#))  
(Agent-based modeling) Modeling Residential Distribution ([link](#))  
(Podcast) Human Biases behind Algorithms ([link](#))  
(Field Note) The Forgotten in Globalization - Argentina Villa 31 ([link](#))

