

Tingting Huang

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EDUCATION

University of Pennsylvania

Aug. 2019 - May. 2021

- Candidate for Master of City Planning (concentration: Sustainable Transportation and Infrastructure Planning)
Course Work: Modeling Geographical Objects (A+), Geospatial Software Design (A+), Planning by Numbers (A)
Geospatial Data Science (A)

Sun Yat-sen University (SYSU)

Aug. 2015 - Jun. 2019

- Bachelor of Science in Human Geography and Urban-Rural Planning; GPA: 3.94/4.00
- Minor: Finance
- Scholarships & Awards: National Scholarship (Top 1%),
First-class Scholarship of SYSU (Top 2%),
“Sports, Culture and Art” Scholarship of SYSU

EXPERIENCE

University of Pennsylvania, School of Design

Jun. 2020 - Current

Research Assistant

- Gather and process data of CARES Act funding for airports, passenger number, operation revenue and cost of airports
- Conduct research about the impact of COVID-19 on airline industry by data analysis, mapping, literature reviews

Demola

Jun. 2020 – Sep.2020

Summer Intern

- Analyze user experience and application scenarios of intelligent access control system in smart city
- Propose recommendations for product improvements based on the impact of the COVID-19 on people's lifestyle

University of Pennsylvania, Wharton School

Jun. 2020 - Aug. 2020

Teaching Assistant

- Conducted Arduino tutorial and led the Arduino labs
- Guided undergraduates to develop and design products

Guangdong Urban & Rural Planning and Design Institute, Big Data Center

Aug. 2018 - Oct. 2018

Assistant Planner

- Processed and visualized data collected via data mining, analyzed the relation between population density and mobility in Weihai and its tourist sites, presented the analysis result in a report to prepare for urban planning of Weihai
- Based on POI data, analyzed the distribution of residents, the distribution of enterprises and industries in Heyuan city by kernel density estimation, the coverage of public service facilities, and accessibility of parks
- Worked out the strength of regional economic connections using gravity model; drew the economic connection network of Heyuan city by R studio and analyzed the spatial pattern

Urban & Rural Sustainable Development Planning Research Center of SYSU

Mar. 2018 - Jul. 2018

Assistant Planner

- Gathered data about edible-mushroom industry in Gutian, Fujian to prepare an agriculture industry planning
- Analyzed the feasibility and strategies of using big data platforms to promote upgrading of agriculture industries in Gutian
- Conduct literature review and case studies to provide references for old community renovation project in Guangzhou
- Developed planning maps via ArcGIS and Auto CAD

Chinese Academy of Sciences

Jun. 2017 - Dec. 2017

Research Assistant

Project Name: Multi-center Measurement of Scientific Cooperation Network and Functions of City Groups in Guangdong-Hong Kong-Macau Greater Bay Area

- Collected data of the number of cooperation researches within and beyond the greater bay area from Web of Science
- Worked out the Gini coefficient to evaluate the multi-centric degree of knowledge production; worked out the multi-centric degree of each city in the knowledge cooperation network to build a basis for subsequent explanation
- Made the scientific cooperation network map of city groups in the bay area via R studio

- Analyzed the multi-centric degree of each city in the bay area under different dimensions and the roles (incubators or hubs) that cities in the bay area played in scientific cooperation; completed the research report

RESEARCH PROJECT

“Find Livable Place in Philadelphia” Web Application

Nov. 2020 - Dec. 2020

- Built APIs using Python Flask and dynamic web pages using a custom front and backend
- Maintained a PostgreSQL database on AWS RDS
- Exported OpenStreetMap data, Census data using Google BigQuery
- Created interactive map on web using Mapbox
- Deployed Web Apps using AWS

Research on Spatial Patterns and Determinants of Talents Distribution in China

Jul. 2019 - Dec. 2019

- Collected data from statistical yearbook and processed data
- Calculated Theil index and built fixed-effects negative binomial models by STATA
- Performed data visualization by ArcGIS to show the spatial patterns of talents distribution in China from 2000 to 2015

Research on Population Backflow to Villages in Northern Guangdong and Its Influence from the Perspective of Ural Revitalization Strategy – A Case Study of Shaoguan

Jun. 2018 - Oct. 2018

2018 “Challenge Cup” Collegiate Extracurricular Academic & Scientific Project Contest

- Designed questionnaires and organized interviews with local government, migrant workers who returned to their hometown
- Processed data via descriptive statistical methods and conducted comparative analysis
- Created a research report for the Human Resources and Social Security Bureau of Shaoguan

Functional Analysis and Optimization Solution of Guangzhou Higher Education Mega Center (HEMC) under the Trend of Knowledge City

Mar. 2017 - Apr. 2018

National Entrepreneurship Training Plan Project (Provincial Project)

- Conducted fieldwork and developed land-use map via Auto CAD and data analysis via ArcGIS
- Made questionnaire surveys for students in HEMC and interviewed staffs in the planning department
- Completed a research report and proposed optimization solutions in land use and transportation connectivity

Relocation of Enterprises under Shenzhen-Dongguan-Huizhou Integration – A Case Study of Huawei

Oct. 2017

First Prize in Chinese National Geography Presentation Contest

- Conducted literature review and organized fieldwork
- Analyzed causes of Huawei’s relocation plan against the backdrop of Shenzhen-Dongguan-Huizhou Integration
- Analyzed the relocation mechanism and its influence based on the strategy of “empty the coop to change birds” and industrial transfer in the Pearl River Delta

SKILL

Data Analysis: Proficiency in R, Python, SQL, PostgreSQL, Google Earth Engine, Basic Programing in JavaScript

Graphic Design: Proficiency in ArcGIS, Adobe Creative Cloud (Photoshop, Illustrator, InDesign), Auto CAD, SketchUp

Content Editing: Microsoft Office Suite

Language: English, Chinese