



Jiacheng Chen

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SKILLS & CERTIFICATIONS

- **Data Analytics Skills:** R, Python, SAS, MySQL, SQLite, SPARQL, Unix Command Line
- **Data Visualization Skills:** Tableau, Power BI, QGIS, ArcGIS, Gephi
- **UX Skills:** Information Architecture Design, Interface Usability Evaluation
- **Certifications:** Spatial Analysis and Design Advanced Certificate (Pratt), Google Data Analytics Certificate, and Course Certificate for Machine Learning (Coursera)

EDUCATION

Pratt Institute - Master of Science, Data Analytics and Visualization 2021.08 - 2023.05

- Related Courses: Information Visualization, Advance GIS Analysis, Database Design, UX Research
- Scholarship & Awards, *FA 2022, SP 2023*:
 - Met Museum Data Analysis & Visualization for Collections Information Fellowship
 - Seoud M. Matta Endowed Award for Excellence in Information Technology
 - Best Group Project, *Pratt InfoShow23*
- GPA: 3.85

Pennsylvania State University - Bachelor of Science, Statistics Major, IST Minor 2016.07 - 2021.05

- Honors: Dean's List, *FA 2020*;
- Honors: Best Use of External Data, *Datafest 2021*;
- Related Courses: Analysis of Variance, Applied Regression Analysis, Applied Time Series Analysis, Survey Sampling

Country Day School of Costa Rica - High School Diploma 2013.03 - 2016.05

- Honors: Citizenship Honor, 2014

PROFESSIONAL EXPERIENCE

The Metropolitan Museum of Art - Data Analytics and Visualization Fellow - Digital Department 2022.09 - 2023.05

Utilized MET's Public API to analyze functionality, and pinpointed improvement areas for enhanced user experience, accessibility, and data utilization. Researched Google Analytics to maximize data insights, leveraging its visualization capabilities and identifying avenues for enhanced reporting.

- Leveraged statistical techniques, and data mining in R and Python to analyze MET's online collection of 500K objects, extracting valuable patterns, trends, and insights for informed decision-making.
- Developed Power BI dashboards integrating MET's collections, website traffic, Public API usage, and Wikidata media, providing valuable insights into usage and impact for GM.
- Established Looker Studio dashboard to guide UX strategies on Navigation design by analyzing Google Analytics data from 1.3M users.

Weeon Technology Co., Ltd. - Data Analyst trainee 2018.07 - 2018.08

Used R Studio to complete survival analysis model and utilized time series analysis on past winning bids to predict current or future bids. Filtered, utilized, and explored massive data, generating data package reports and conducting insightful analysis.

- Assisted GM in database management, including collection and analysis of project bidding data.

RESEARCH EXPERIENCE

Data Literacy with, for, and by Youth, at Pratt Institute - Data Analyst Graduate Assistant 2022.10 - Present

- Contributed to NSF-funded project, led by Drs. Leanne Bowler, Mark Rosin, and Irene Lopatovska, developing, constructing, and evaluating data literacy activity prototype for youth in public library-based after-school STEM programs.
- Created automated data cleaning framework in R and Python, aggregating unstructured qualitative transcript data to lay project foundation.
- Leveraged LIWC-22's NLP dictionaries to extract emotion and sentiment factors from data, and performed Logistic Regression Analysis to yield valuable research insights.
- Conducted regular meetings and provided comprehensive reports to research team improved data analysis clarity and facilitated literature reviews, strengthening project's knowledge base.

Significance Validation Test of the Lipstick Effect in Brazil During 1989 to 2016 at Penn State University

2020.09 - 2020.12

- This project, which was a part of STAT 470W, was carried out by a team of three who selected their own topics. The project was submitted to the **Undergraduate Research Project Competition (USRESP)**, *Fall 2020*.
- This project utilized Time Series Analysis and Generalized Additive Models (GAM) to analyze the imports of cosmetics in Brazil from 1989 to 2016 in order to verify the regional significance of the "Lipstick Effect" in Brazil.

Civic Aircraft Traffic Routes Above Manhattan, Pratt Institute

2022.10 - 2023.01

- Collaborated with a partner to create a 3D map of helicopter routes over Manhattan using ArcGIS Online/ArcGIS Pro and Python, showcasing data processing and visualization skills and raising awareness about helicopter noise impact.
- Awarded Best Group Project in Pratt Institute InfoShow23.

Publications

Mapping super-gentrification in US cities, 1990-2020

2023.09 - Present

(Working paper currently under review at Urban Geography)

Insights into the Co-Design of Afterschool Data Literacy Activities for Teens: Linguistic Patterns Based on a LIWC-22 Text Analysis

(Working paper currently under review at the Association for Information Science & Technology)

TEACHING EXPERIENCE

STAT 200, Elementary Statistics, at Penn State University - Learning Assistant

2017.08 - 2018.05

- Partnered with teaching assistant preparing course-related lab materials.
- Reinforced students' learning through timely and frequent feedback, and answered students' questions about class materials.
- Participated in weekly meetings with professor and teaching assistants.

PROFESSIONAL MEMBERSHIPS

American Statistical Association (ASA) - Member

2020.08 - Present