Jiacheng Chen

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Research Interests

Through my undergraduate studies in Statistics and my master's studies in Data Analytics and Visualization, I developed a particular interest in **interactive visualizations** and **optimizing data storytelling efficiency**. I am looking forward to joining **Dr. Eugene Wu**'s research team in **Data Interfaces & Design** and to have the opportunity to pursue a doctoral degree under his guidance.

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 (pursuing), User Experience Advanced Certificate (pursuing), Google Data Analytics Certificate, Course Certificate for Machine Learning (Coursera)

EDUCATION

Pratt Institute   Aug 2021 - May 2023

Master of Science, Data Analytics and Visualization   New York, NY

- Related Courses: Information Visualization, Advance GIS Analysis, Database Design
- Honor: Met Museum Data Analysis & Visualization Fellowship for Collections Information
- Scholarship & Awards*, FA 2022, SP 2023*:
  - Hoffman Scholarship Fund*;*
  - Hart Scholarship*;*
  - Library School Graduates Association.
- GPA: 4.0/4.0

Pennsylvania State University   Jul 2016 - May 2021

Bachelor of Science, Statistics Major, IST Minor   State College, PA

- 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   Mar 2013 - May 2016

High School Diploma   Escazu, Costa Rica

- Honors: Citizenship Honor, 2014

RESEARCH EXPERIENCE

Data Literacy with, for, and by Youth, at Pratt Institute   Oct 2022 - Present

Data Analyst Graduate Assistant   New York, NY

- This project, funded by the **National Science Foundation** and led by *Drs. Leanne Bowler, Mark Rosin, and Irene Lopatovska*, aims to design, build, and test a prototype of a data literacy activity for young people to be used in after-school STEM programs at public libraries.
- Created an automated data cleaning framework for qualitative transcript data using R and Python to aid in the study.
- Utilized NLP dictionaries provided with LIWC-22, a qualitative analysis software, and analyzed emotion, sentiment factors in these data.
- Composed weekly research reports and provided documentation for the data analysis conducted by the research team. Additionally, assisted with literature reviews.

MET Lab at the Metropolitan Museum of Art   Sep 2022 - Present

Data Analyst and Data Visualization Designer   New York, NY

- Utilize Power BI to create data dashboards for MET's website traffic, Public API usage, and Wikidata media usage by performing data cleaning and analysis with R and Python. These dashboards will provide clear insights into the usage of MET's collections information.

- Investigate the capabilities of Google Analytics and the potential of using the tool for data visualization.

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

Sep 2020 - Dec 2020
State College

Student Team Leader

- 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.

PROFESSIONAL EXPERIENCE

The Metropolitan Museum of Art

Sep 2022 - Present

Data Analytics and Visualization Fellow Digital

New York, NY

- Provide analytics on MET's growing online collection (about 500,000 objects currently).
- Work with the Met's Public API to understand what is working, identify areas of improvement, what data visualizations can be created, and explore ways of measuring the use and impact of the API.
- Produce Wikidata visualizations (including knowledge graphs) that show how Met collections connect to other data sets outside the museum.

Weeon Technology Co., Ltd.

Jul 2018 - Aug 2018

Data Analyst trainee

Beijing, China

- Assisted the General Manager with database management;
- Responsible for completing the collection and analysis of project bidding data;
- Completed the survival analysis model using R Studio, and analyzed past similar winning bids using time series to predict current or future bids;
- Completed the filtering and utilization of massive data and implemented data exploration, produced data package reports and composed report analysis.

TEACHING EXPERIENCE

STAT 200, Elementary Statistics, at Penn State University

Jan 2018 - May 2018

Learning Assistant

State College, PA

- 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.

Statistics Course at Penn State University

Aug 2017 - Dec 2017

Learning Assistant Statistics

State College, PA

- 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)

Aug 2020 - Present

Member