# HAO KAI (KEVIN) LIAO

📞646-369-3986 ✉ Haokliao@gmail.com 🔗 **LinkedIn** 🔗 **GitHub**

## PROJECTS

**Critical Force Visualization** *Jun 2021*

- Conducted exploratory data analysis and visualizations looking at rock climbing forces using data from *An All-Out Test to Determine Finger Flexor Critical Force in Rock Climbers* (Giles et al 2020) with Seaborn, Matplotlib, and Pandas
- Utilized data to draw insight and conclusions on how ff-CF, W' relate to grades climbed, representing this using histogram, scatterplots, and more.
- Strategically designed visuals using gathered data to display a variety of data points accurately and efficiently, which were used to draw conclusions and make data-driven analysis.

**Climbing Disciplines Visualization** *Jan 2021*

- Utilized Jupyter Notebooks and iPywidgets to create an interactive display which generated heatmaps for three different disciplines of climbing, (bouldering, top rope, lead) allowing for easy accessibility using Poetry as a Python dependency manager.
- Gathered and sourced data from the local climbing community for datasets, searching for trends between years climbing, climbing grade, and age.

## SKILLS

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| **Programming Languages** **Libraries and Frameworks** **Other Skills** | **Familiar:** Python \| SQL \| JavaScript \| HTML \| Pandas \| Seaborn \| Matplotlib \| Jupyter Notebook Git \| Microsoft Office |

## EDUCATION

**Baruch College, Zicklin School of Business** *Expected Dec 2022*
BBA in Computer Information Systems, Specialization in Data Analytics \| GPA 3.70/4.00
Minor in Statistics, Industrial/Organizational Psychology

**The Culinary Institute of America** *Nov 2015*
Associates of Occupational Studies for Baking and Pastry Arts

## EXPERIENCE

**CUNY Tech Prep**
Data Science Fellow *Jun 2021- Current*

- Participating in a year-long developmental technical program within the CUNY ecosystem to learn in-demand technologies for Data Science, as well as industry best practices for feature engineering, data collection and processing, statistical modeling, data visualization, machine learning techniques, data science processes, and big data

**Central Rock Gym Manhattan** *Jun 2018 - Current*
Front Desk Staff / Private Instructor

- Primarily focused on Front Desk operations such as general administrative duties and utilizing POS systems for scheduling, event administration, and guest check-ins

**J Crew Rockefeller Center** *Aug 2016-Aug 2017*
Visual Merchandiser

- Collaborated with Directors of the North American merchandising division, to create visuals for the upcoming and seasonal merchandising rollouts for all J-Crew stores statewide

**The Modern** *Jul 2015-Apr 2016*
Pastry Cook

- Produced elaborate pastries, artisan breads and plated desserts in a fast paced, high pressure, deadline-oriented two Michelin-starred fine dining establishment