Kiet C. Lam

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EDUCATION

Hamilton College, Clinton, NY August 2022 - May 2026
Bachelor of Arts in Data Science

- GPA: 3.70
- **Relevant coursework:** Design Principles, Linear Algebra, Multivariable Calculus, Probability and Statistical Inference, Algorithms and Data Structures

SKILLS

Programming language: Python, R, SQL, C++
Data science techniques: Pandas, Numpy, tidyverse, Scikit-learn, Matplotlib, Tableau, Seaborn, ggplot2, Microsoft Excel, Google Sheets
Database: MySQL and BigQuery

EXPERIENCE

Research analyst, **Hamilton College Neuroscience Department,** Clinton, NY May - June 2023

- Visualized participants' demographics using Python's Matplotlib
- Designed a correlational matrix among participants' responses to different questions from multiple psychological scales (MAIA, PVD, QCAE, TDD, and UCLA) using R's tidyverse ggplot2.
- Customized an R script imported from college collaborator's Github repository to compile HRV data from 300+ participants.
- Encoded participant's ambiguous responses into appropriate values using R's dplyr package.
- Constructed an R script that compiles all responses from 4 different Qualtrics questionnaires
- Implemented additional R packages (lmerTest, lme4, and arsenal) to build multiple regression models, produce statistical summaries, as well as perform significant testings.
- Visualized the project's findings using Google Sheets for a poster presentation at the NY6 research conference at Hobart and William Smith College
- Performed hypothesis testings (paired t-test, t-test, ANOVA) using Excel to answer questions about the relationship between various variables

PROJECTS

Exploratory Analysis in NBA 2007-2021 Season August 2023

- Filtered and aggregated the merged data frame to calculate the average number of years it take for a player to make it to at least one NBA Selected Team from the 2007-2021 season
- Created a bar chart to visualize the average number of points per game for 4 NBA Selected Teams (1st team, 2nd team, 3rd team, All-Stars) using Matplotlib
- Implemented hypothesis testings to determine significance for questions, such as whether there is evidence for a significant difference in points per game for a player from the 1st, 2nd, 3rd, and All-Stars teams

Exploratory Analysis in America's income data in 2015 December 2023

- Processed the dataset by visualizing each variable to determine outliers using Matplotlib
- Built a pipeline that aggregates different variables, such as age and income, and calculates descriptive statistics (mean, mode, median, percentiles)
- Answered questions, such as whether certain races make a higher income than others, through hypothesis testing (t-test, Paired t-test)
- Visualized the relationship between various variables through bar charts, pie charts, frequency tables, and scatter plots