

# Boheng Lin

<https://bohengl.in.github.io>

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## SKILLS

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- **Databases:** Access, PostgreSQL & Azure data factory, DataBricks, data engineering
- **Programming Languages:** SAS, Python, R, HTML
- **Visualization:** [Tableau](#) & PowerBI
- **Analytics:** Unsupervised (clustering) and supervised (regression) machine learning. Statistics, Web scraping, GIS, background in economics and finance.
- **Communication:** Bilingual in Chinese Mandarin and English, event planning and execution.

## EDUCATION

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### Tufts University

M.S. Data Analytics

December 2020

- Recipient of Data Analytics Scholarship 2019, GPA: 3.7/4.0;
- Courses: Data analysis (python, R, Matlab), database (PostgreSQL), data visualization (Tableau), econometrics, probabilities, statistics, quantitative reasoning and urban planning.

### University of Massachusetts Amherst, USA

B.S. Resource Economics

August 2019

- Recipient of Chancellor's Scholarship 2017 and Faculty Award for Academic Excellence Scholarship 2019;
- Cumulative GPA 3.85/4.0, Dean's List every term, outstanding Academic Achievement by the Honour Society of Phi Kappa Phi 2018;
- Courses: Micro- & Macro-economics, econometrics, statistics for businesses, data analysis (python, Excel, Access, SAS), price theory, game theory, industrial organization, fundamentals of finance, marketing, accounting and management.

### Anglo Chinese Junior College, Singapore

Singapore-Cambridge GCE A Level Certificate

December 2016

- Graduated in top 10% of the class, with 5 distinctions in Singapore-Cambridge GCE A Level 2016;
- Scholastic Merit Award.

## PROJECTS ([All projects](#))

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### [Image Compression using Singular Value Decomposition \(Matlab\)](#)

- Used singular value decomposition to assess the effects of compressing an image of 1528\*1225 pixels using the top 10, 25, 50 and 100 largest singular values and explore the possible optimum number of singular values to be used for the compression.

### [Exploring the inconsistency of KMeans in identifying breast cancer cells using principal components \(Python\)](#)

- Used principal component analysis and dimension reduction to facilitate KMeans algorithm to assess the consistency and accuracy of classifying malignant and benign breast cancer cells;
- Compared classified label to the original label and determined low applicability of using KMeans on PC dimension reduced dataset.

### [Exploring the Representativeness of Batting Average on Major League Baseball Players' Performances \(Python\)](#)

- Used pandas, re, requests, and bs4 (BeautifulSoup) to perform web scraping, extracting MLB players' scores with about 350 entries;
- Used sklearn and pandas to perform ridge regressions, linear regressions, supervised machine learning and principal components analysis to assess the representativeness of the batting average score on MLB players' performance.

### [CT Level Analysis on Gun Violence And the Demographics in Boston, Massachusetts \(R Language\)](#)

- Used dplyr, clusteval, rgdal to perform supervised learning, K-Means clustering and linear regression on data set with 1400 entries;
- Used rgeoda, sf, geosphere and GeoDa to perform geospatial clustering on 1400 entries of data
- Conducted quantitative and qualitative analysis on gun violence and the demographics in Boston from 2010 through 2018 link

## EXPERIENCE

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### Retail Business Services LLC, a company of Ahold Delhaize USA

June 2020 – Dec 2020

Business Intelligence & Analytics Co-op

- Responsible for technical design and development of business intelligence solutions, constructed copy data pipeline independently in Azure data factory;
- Using pyspark, sparklyr, SparkR and SQL to convert a local R script that accepts and analyses small datasets into a script on Databricks that utilizes clusters to accepts and analyses yearly data with daily entries consisting of millions of records.

<b>China Blue Sustainability Institute</b> Project Assistant Intern <ul style="list-style-type: none"> <li>▪ Explored and assisted in developing database for iFISH project, including fishing related data collection, data analysis and methodology development;</li> <li>▪ Analysed and construct visualizations based on collected data and constructed analysis reports published on company's public WeChat account, with highest views of 900+, most number of shares by other organizations of 140 times, and most number of new followers of 30.</li> </ul>	<b>April 2020 - Present</b>
<b>Carmichael Dining Center, Tufts University, Medford</b> Student Manager <ul style="list-style-type: none"> <li>▪ Assisted in various dining units in providing quality services, able to multitask under stress and fast pace working environment;</li> <li>▪ Supervised and effectively communicated with all student workers complete assigned tasks timely;</li> <li>▪ Bridged between the management team and student workers to achieve operational and customer service objectives.</li> </ul>	<b>September 2019 – May 2020</b>
<b>Shenzhen SME Credit Financing Guarantee Group Co. Ltd</b> <b>Shenzhen, China</b> Assistant to Manager Intern <ul style="list-style-type: none"> <li>▪ Compiled and analysed the Group's internal data including guarantee amounts, mortgages and projects completion statues, and reported relevant findings to respective managers;</li> <li>▪ Processed projects data including data gathering, data cleaning and cross validation for '2019 SME integrity list';</li> <li>▪ Independently reviewed and analysed SMEs' balance sheets and profit and loss statements;</li> <li>▪ Collaborated with legal department and finance department of the Group on several projects and new mortgages.</li> </ul>	<b>May 2019 – Aug 2019</b>
<b>Isenberg School of Management</b> <b>Massachusetts Small Business Development Center, Springfield</b> Business Consultant Intern <ul style="list-style-type: none"> <li>▪ Conducted market research and reviewed business plans for clients;</li> <li>▪ Prepared and analysed financial projects for clients including profit and loss and balance sheets;</li> <li>▪ Met with clients to advise them on both marketing strategies and financial cash flows.</li> </ul>	<b>September 2018 – December 2018</b>
<b>University of Massachusetts Amherst Dinning Hall, Amherest</b> Student Worker <ul style="list-style-type: none"> <li>▪ Prepared ingredients, made sushi and deli sandwiches and served food, able to complete given tasks independently.</li> </ul>	<b>September 2017 – May 2019</b>
<b>Din Tai Fung (Tampines Mall), Singapore</b> Waiter <ul style="list-style-type: none"> <li>▪ Provided quality service under fast pace environment, able to multi-task under pressure.</li> </ul>	<b>June 2015 – February 2016</b>
<b>Buddhist Compassion Relief Tzu Chi Foundation, Singapore</b> Member Volunteer <ul style="list-style-type: none"> <li>▪ Actively engaged in monthly community recycling and campaigning, carried out activities at a care home.</li> </ul>	<b>March 2014 – May 2016</b>
<b>Berries World School of Learning (TPCL) Pte Ltd, Singapore</b> Teaching Assistant <ul style="list-style-type: none"> <li>▪ Assisted six teachers in the conduction of lessons from primary one to three, smoothly worked with teachers with different teaching styles.</li> </ul>	<b>March 2014 – December 2015</b>
<b>ACTIVITIES</b>	
<b>University of Massachusetts Amherst</b> The Honour Society of Phi Kappa Phi member	<b>March 2019 – March 2020</b>
International Student Ambassador <ul style="list-style-type: none"> <li>▪ Coordinated information sharing and outreach for potential applicants from Singapore and China.</li> </ul>	<b>December 2017 – December 2018</b>
Chinese Music Association <ul style="list-style-type: none"> <li>▪ Treasure and Signature Responsibility Officer, responsible for budgeting and fundraising for the group.</li> </ul>	<b>September 2017 – May 2019</b>
<b>Anglo Chinese Junior College</b> Competitive Swimming Team <ul style="list-style-type: none"> <li>▪ Boys' Team Captain. Finalist in the 57th National Schools Swimming Championship (Singapore)</li> </ul>	<b>January 2015 – December 2016</b>