

# Hongling Lei

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## EDUCATION

### Carnegie Mellon University

U.S.

*Master of Information Systems Management, Business Intelligence and Data Analytics.* GPA 3.83 Aug. 2021 – Dec. 2022

- Relevant Courses: Object Oriented Programming in Java, Data Structures for Application Programmers, Unstructured Data Analytics (NLP), Machine Learning for Problem Solving, Deep Learning

### Xiamen University

China

*Bachelor of Economics, Finance.* GPA 3.81

Sept. 2016 – Jun. 2020

- Relevant Courses: Mathematical Analysis, Statistics, Probability Theory, Linear Algebra

### University of California, Berkeley

U.S.

*Semester Exchange, Multidisciplinary Program.* GPA 3.95

Jan. 2019 – May 2019

- Relevant Courses: Data Analysis and Scientific Computing (Python), Computing with Data (R)

### Nanyang Technological University

Singapore

*Summer Exchange, Digital Marketing.* GPA 5.0

Jun. 2018 – Jul. 2018

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## PROFESSIONAL EXPERIENCE

### Tencent

Shanghai

*Data Scientist Intern, Public Data Science Department*

Apr. 2021 – Jul. 2021

- Conducted causal inference with algorithms like Causal Bayesian Networks, X-Learner, and Causal Forest; analyzed treatment effects of key drivers for customer consumption time on Tencent's streaming platforms
- Implemented experiments on user experience with Tencent WeSee, TikTok, and Kuaishou
- Constructed a data pipeline for automated causal inference, including modules like feature engineering, machine learning model training, and future experiment testing based on analytical results

### DiDi

Beijing

*Data Analyst Intern, Decision Support Department*

Sept. 2020 – Nov. 2020

- Supported business and strategy decisions by extracting and analyzing billions of data points on Apache Hive; conducted SQL query optimization, speeding up execution processes and boosting computational efficiency
- Designed a market sizing model with SQL and Excel, correctly predicting driver and order growth rates; collected drivers' feedback and wrote analysis reports with directions of improvement and feasible solutions
- Created and monitored business dashboards that can automatically update data and visualize analytical results

### Bairong Technology

Shenzhen

*Data Scientist Intern, Financial Technology Department*

May 2020 – Aug. 2020

- Built a semi-supervised learning model using the MixMatch algorithm with PyTorch, which can classify customers into different groups based on credit default risk predictions, achieving 90% accuracy
- Developed a report generation program with over 2,000 lines of Python code, which automatically calculates performance indicators, graphs statistical distributions, produces analysis texts, and creates formatted slides
- Tested large scale datasets with VBA, ensuring data quality before sending them to clients

### LexinFintech

Shenzhen

*Data Management Intern, Big Data Intelligence Department*

Aug. 2019 – Sept. 2019

- Analyzed over 667K real-time customer profile data using Hive; developed a real-time interactive web report with a search function and visualized results based on Kafka and Spark streaming
- Contributed to the Financial Statement Project: extracted 44 testing samples that covered all situations from 170M financial data for the Risk Management Department, shortening report generation time from 3 days to 2.5 hours
- Performed database consistency checks by sorting and fixing abnormal jobs through checkpoint recovery

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## PROGRAMMING PROJECTS

### Grocery Master (Teamed with classmates) [\[GitHub\]](#)

Oct. 2021

- Developed a Python program that allows users to search for a good, returns available options at nearby grocery stores, and compares their nutritional information by live-scraping Target, Walmart, and Trader Joe's websites

### Package Development [\[GitHub\]](#)

Apr. 2019

- Published an R package called "binomial" that tests the validity of inputs, calculates the probability based on given parameters, graphs the distribution and displays a summary of skewness, kurtosis, etc.

### Angry Projectiles (Teamed with Google engineers) [\[GitHub\]](#)

Mar. 2019

- Developed a throwing game that simulates the launch, studies the motion, and animates the trajectory of projectiles

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## TECHNICAL SKILLS

**Programming/Software:** Java, Python (PyTorch, TensorFlow), SQL, R, Stata, HTML, Apache Hive

**Languages:** Mandarin Chinese (native), English (bilingual, TOEFL 116 with Speaking 30), Korean (basic)