

Hongling Lei

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EDUCATION

Carnegie Mellon University

Master of Information Systems Management – Business Intelligence and Data Analytics

U.S.
Aug. 2021 – Dec. 2022

- Relevant Courses: Object Oriented Programming in Java, Data Focused Python, Data Structures for Application Programmers, Unstructured Data Analytics (NLP), Advanced Business Analytics, Database Management

Xiamen University

Bachelor of Economics. GPA 3.81/4.0

China
Sept. 2016 – Jun. 2020

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

University of California, Berkeley

Semester Exchange, Multidisciplinary Program. GPA 3.95/4.0

U.S.
Jan. 2019 – May 2019

- Relevant Courses: Data Analysis Using Python, Computing with Data Using R

Nanyang Technological University

Summer Exchange, Digital Marketing. GPA 5.0/5.0

Singapore
Jun. 2018 – Jul. 2018

PROFESSIONAL EXPERIENCE

Tencent

Data Scientist Intern, Public Data Science Department

Shanghai
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
- Designed and implemented experiments on user experience with Tencent WeSee, TikTok, and Kuaishou
- Developed 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

Data Analyst Intern, Decision Support Department

Beijing
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
- Designed and monitored business dashboards that can automatically update data and visualize analytical results

Bairong Technology

Data Scientist Intern, Financial Technology Department

Shenzhen
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 over 200K Excel rows with VBA, ensuring data quality before sending them to clients

LexinFintech

Data Management Intern, Big Data Intelligence Department

Shenzhen
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
- Participated in 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

PROGRAMMING PROJECTS

R | 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.

Python | Angry Projectiles (Team Member, with 2 Google Engineers) [\[GitHub\]](#)

Mar. 2019

- Applied aerodynamics knowledge and Newton's method using NumPy and SciPy
- Developed a throwing game that simulates the launch, studies the motion, and animates the trajectory of projectiles

R | Shiny App Development [\[GitHub\]](#)

Mar. 2019

- Developed a user-interactive web app that can forecast investment returns and graph the growing trend

TECHNICAL SKILLS

Programming/Software: Python, Java, SQL, R, C, HTML, TensorFlow, PyTorch, Apache Hive, Meltwater, SEMrush

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