

Haolong Li

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EDUCATION

EPFL

MSC IN COMPUTATIONAL SCIENCE AND ENGINEERING

Aug. 2022 - Present
Lausanne, Switzerland
GPA: 5.13 / 6.0

HARBIN INSTITUTE OF TECHNOLOGY

BS IN STATISTICS

Aug. 2018 - July. 2022
Harbin, China
GPA: 90.4/100
Ranking: 2 / 20

LINKS

Github: [Tachi-67](#)

LinkedIn: [Haolong Li](#)

COURSEWORK

EPFL

Software Engineering
Software Development Project

(3rd prize out of 22 teams)

Applied Data Analysis

(Top 20% in final exam)

Machine Learning

(Top 20% in final exam)

Large-scale data science for real-world data

Data visualization

Algorithms

HIT

Stochastic Processes

Mathematical Statistics

Real Analysis

Functional Analysis

Numerical Linear Algebra

SKILLS

PROGRAMMING

Python • Kotlin • Java • HTML •

CSS • JavaScript • Shell • R •

LaTeX

Familiar:

Git • Android • Hadoop • HiveQL •

PySpark

EXPERIENCE

COOK4ME | FULL-STACK DEVELOPER & SCRUM MASTER

Feb. 2023 - Jun. 2023 | EPFL, CH

[Repo link here](#)

- Designed an Android app with Jetpack Compose & Kotlin in the pattern of **MVVM**; Established **instrumented testing**; Reviewed pull requests for other team members.
- Worked with **continuous integration**.
- Worked as **Scrum master** in a fashion inspired by the **Scrum** development process.

ROUTE PLANNER | DATA ANALYST

Feb. 2023 - Jun. 2023 | EPFL, CH

[Repo link here](#)

- Worked on the **SBB transport data** with **Python**, **PySpark** and **HDFS** to build a route planner for public transport in Switzerland.
- Data wrangling with PySpark**: derived data from separate tables, form new data of need in the form of stop-to-stop information to create route graphs.
- Built a multigraph from the previous data for later analysis.
- Built an interactive user interface.

POKÉMON DATA STORY | FRONT-END DEVELOPER

May 2023 - Jun. 2023 | EPFL, CH

[Repo link here](#)

- Worked on a **website** to illustrate pokémon's features and recommendations for pokémon selection.
- Set up infrastructure of the website.
- Used **JavaScript** for interactive components and website behaviours.

GENDER LENS | DATA ANALYST & FRONT-END DEVELOPER

Sep. 2022 - Jan. 2023 | EPFL, CH

[Repo link here](#)

- Worked on the **CMU Movie Summary Corpus** with **Python**.
- Preprocessed** the data (reformatting data, dealing with abnormal data points, dropping less representative data, etc.) for further analysis.
- Analysed the evolution of gender inequalities by investigating the gender composition in the movie industry over time.
- Tasked with the **final data-story page** implementation.

RESEARCH

NATIONAL UNIVERSITY OF SINGAPORE | STUDENT RESEARCHER

June 2021 - Sep. 2021 | Singapore

- Implemented 3 algorithms (EM, MM, AI-REML) to conduct variance component estimation in LMM with R. Evaluated outputs with simulated replicates.

AWARDS

2019-2021 top 10% People's Scholarship