

# 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  
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 • CSS •  
JavaScript • Shell • R •  $\text{\LaTeX}$  •  
C++  
Familiar:  
Git • Android • Hadoop • HiveQL

## EXPERIENCE

### COOK4ME | SDP COURSE PROJECT CONTRIBUTOR & SCRUM MASTER

Feb. 2023 - Present | EPFL, CH

#### Repo link here

- Full-stack developer: Designed features with Jetpack Compose & Kotlin in the pattern of **MVVM**; Established **instrumented testing**; Reviewed pull requests for other team members.
- Worked with **continuous integration**.
- Worked in a fashion inspired by the **Scrum** development process.

### GENDER LENS | ADA COURSE PROJECT CONTRIBUTOR

Sep. 2022 - Jan. 2023 | EPFL, CH

#### Repo link here

- Worked on the **CMU Movie Summary Corpus** with **Python** to obtain insights over gender inequalities in the movie industry.
- **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, proposing an mathematical explanation and inferring the conclusions.
- 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.
- Used PLINK, a tool for genome-wide association study (GWAS) analysis, to conduct quality control and association analysis in order to filter the data and finally obtain results (possible SNPs) of the association analysis.

### HARBIN INSTITUTE OF TECHNOLOGY | STUDENT RESEARCHER

Sep. 2021 - July 2022 | Harbin, CN

- Implemented 2 algorithms (BBKNN, MNN) for batch effect correction for single cell data
- Proposed an algorithm in Python for batch effects correction for single cell data.
- Integrated pancreas datasets from different sources for numerical experiments and verified correction results against existing algorithms.

## AWARDS

2021	top 10%	People's Scholarship
2020	top 10%	People's Scholarship
2019	top 10%	People's Scholarship