

# FAN CUI

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## EDUCATION

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**University College London**

M.S. in Information Security

09/2020 - 09/2021

**Zhejiang University**

B.S. in Computer Science

Overall GPA: 3.79/4

Third year GPA: 3.99/4 Rank 5/122

Mixed Class, Chu Kochen Honors College

09/2016 - 07/2020

## RESEARCH INTEREST

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**Machine Learning**

**Distributed System**

## PROJECT AND RESEARCH EXPERIENCE

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**Department of Computer Science, Zhejiang University**

*Dissertation Project*

Hangzhou, China

12/2019 - 06/2020

- Design and implement **an elevator fault forecasting model based on machine learning** (Cooperated with the Special Equipment Research Institute of Zhejiang Province).
- The model is used to identify high-risk elevators with potential malfunction from all elevators in Zhejiang Province.

**Pervasive Computing Lab, Zhejiang University**

*Research Assistant*

Hangzhou, China

07/2019 - 11/2019

- Re-implement **the Spatiotemporal Multi-Graph Convolution Network (ST-MGCN)** for Ride-hailing Demand Forecasting.

**Department of Computer Science, The University of Hong Kong**

*Research Assistant*

Hong Kong, China

07/2019 - 09/2019

- Assist Prof. Giulio Chiribella with the research of **energy-preserving quantum channel**.
- Prove two main theorems regarding energy-preserving quantum channel.
- Retrofit **the Grover's algorithm** to achieve 100% accuracy with only 1/2 energy consumption by introducing **energy superposition**.
- A paper in progress.

**Advanced Computing and System Lab, Zhejiang University**

*Research Assistant*

Hangzhou, China

09/2017 - 04/2018

- Implement **a prediction model for stock market trend** (Shanghai and Shenzhen 300 Index) using natural language processing and data mining.

## SELECTED AWARDS

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[10/2019] First-class Scholarship for Academic Excellence of Zhejiang University (ranked 5th of 122)  
[12/2018] Third prize of College Physics Competition in Zhejiang Province  
[10/2018] Third-class Scholarship for Academic Excellence of Zhejiang University  
[10/2018] Outstanding Students of Zhejiang University  
[10/2017] Third-class Scholarship for Academic Excellence of Zhejiang University

## TECHNICAL SKILLS

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<b>Languages</b>	Mandarin(native), English(upper intermediate)
<b>Programming Languages</b>	C, C++, Python, C#, Java, SQL, Matlab
<b>Certificate (Coursera)</b>	Certificate of Machine Learning by Stanford University

## MISCELLANEOUS

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<b>St Antony's College, University of Oxford</b>	Oxford, England
<i>Exchange Student</i>	<i>02/2019</i>

- Series of seminars about cutting-edge research areas such as smart city, robotics, etc.

<b>Youth League, Zhejiang University</b>	Hangzhou, China
<i>Vice Minister</i>	<i>09/2016 - 06/2018</i>

- Organize college activities, such as Freshmen cocktail party, Welcome to ZJU labs.