

# Yuzhe YANG 阳雨哲

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## About Me:

A junior CSE student with a keen interest in deep learning. Currently exploring GCN, LLM, and NLP.

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GitHub: [github.com/tobyang7](https://github.com/tobyang7)

Kaggle: [kaggle.com/tobyang7](https://kaggle.com/tobyang7)

Homepage: [tobyang7.github.io](https://tobyang7.github.io) (to be continued...)

## Education

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The Chinese University of Hong Kong, Shenzhen

*School of Data Science*

*Expected Graduation: May 2025*

Bachelor of Science in Computer Science

*Core Curriculums:* Data Structure, Operating System, Computer Architecture, Machine Learning, etc.

## Skills

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**Programming Languages:** Python, PyTorch, C++, RISC-V, HTML, JavaScript, React

**Technologies:** Git, VS Code, MATLAB, L<sup>A</sup>T<sub>E</sub>X, Linux, CLI

**Other Tools:** Photoshop, Lightroom, Office, Power BI, Figma

**Languages:** English (Fluent), Mandarin (Native)

**Hobbies:** Photography, Sports

## Work Experiences

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China Telecom Beijing Research Institute

*Jan 2024 - Mar 2024*

- Intern at the AI Large Model Research Team

- Analyze a technology's trends, applications, and industry impact

## Research Experiences

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**FAST-CA: Fusion-based Adaptive Spatio-Temporal Learning with Coupled Attention for Airport Network Delay Propagation Prediction**

*Aug 2023 - Nov 2023*

SDS, CUHKSZ

- Advised by **Prof. Jianfeng Mao**, submitted to the *Information Fusion* journal

- Refined the deep learning model for the prediction of airport network delays

- Spatio-temporal data analysis and illustration

- Deep Learning, GNN, GCN, PyTorch, PyTorch Geometric

**Research in Conditional Spatio-Temporal Graph**

*Jan 2024 - Current*

SDS, CUHKSZ

**Deep Learning Approach for Early Predicting and Controlling Network Flow in SDN**

*Jan 2024 - Current*

ICNLAB, PKUSZ

## Projects Experiences

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### **MCM: Evaluation Model of Light Pollution by Multi-conditional AHP**

*Feb 2023*

- GIS-data analysis, Mathematical modeling
- Analyzed the level of light pollution in the area by population data, regional income data, etc.
- Explored the multifaceted impacts of light pollution on the region
- GeoPandas, Folium

### **Kaggle: Open Problems - Multimodal Single-Cell Integration**

*Feb 2022 - Apr 2022*

- Machine Learning, Data Analysis
- Predict how DNA, RNA & protein measurements co-vary in single cells
- Silver Medal

### **Kaggle: Happywhale - Whale and Dolphin Identification**

*Aug 2022 - Nov 2022*

- Machine Learning, Data Analysis
- Identify whales and dolphins by unique characteristics
- Silver Medal

### **Game Theory Analysis of SEO Strategies: From Methods to Models**

*Nov 2023 - Dec 2023*

- Search Engine Optimization
- Game theory modeling

### **Machine Learning Project (*in class*)**

*Feb 2023 - May 2023*

- Data Analysis, Data Visualization
- Python: numpy, pandas, matplotlib, sklearn, scipy, etc
- Implemented model: Linear Regression, SVM, Decision Tree, K-Means, PCA, etc.

### **CPU Circuit design (*in class*)**

*Jul 2023*

- Verilog, RISC-V
- Implemented simple RISC-V instructions through circuit design and realized CPU pipelining

## Activities

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### **MUSE College Student Assistant: Outstanding College Contribution Award**

*Sep 2021 - Sep 2023*

### **MUSE College Basketball Team**

*Sep 2021 - Sep 2023*

### **P.I.C. Photography Club**

*Sep 2021 - Jun 2022*