Mingfeng **Chen**

Master of Science in Data Science

Tsinghua University, China

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Education

Bachelor in Software Engineering

Northwestern Polytechnical University — *Sep.2018 - Jun.2022*

- Major GPA:85.6/100

Master in Data Science

Tsinghua University — *Aug. 2022 - Present*

Skills & Background knowledge

Programming Python, C, C++, Java, JavaScript, Matlab

Background knowledge

- Mathematics: Calculus, Linear Algebra, Probability Statistics, Complex Variable Function & Integral Transform, Numerical Computing Method
- Computer Science: Data Structures & Algorithm, Database Technology, Machine Learning, Object-oriented Programming, Computer Network, Computer Operating System, Computer Graphics, Digital Image Processing

Grade of Core Curriculum

• C++ Programming Experiment	95/100
• Discrete Mathematics	91/100
• Object-oriented Programming	91/100
• User Interface Design	93/100
• Calculus	89/100
• Complex Variable Function & Integral Transform	97/100
• Computer Graphics	93/100

Prize

Scholarship	Second-class Scholarship of Northwestern Polytechnical University	*Sep. 2019*
	Second-class Scholarship of Northwestern Polytechnical University	*Sep. 2020*
	Second-class Scholarship of Northwestern Polytechnical University	*Sep. 2021*
Competitions	Third prize of Asia and Pacific Mathematical Contest in Modeling	*Nov. 2020*
	Second prize of Northwestern Polytechnical University Mathematical Contest in Modeling	*May. 2020*

Experience

Northwestern Polytechnical University

Xi'an, China

Research Assistant to Associate Professor Hongping Gan — *Dec. 2021 - Jun.2022*

ECG Signal Compressed Sensing Method Based on Deep Learning

- Use Convolutional Neural Network to extract features and preliminarily reconstruct signals.
- Transfer the Transformer model to signal processing, and use it to realize end-to-end efficient signal reconstruction.
- Train and test model on Chinese Cardiovascular Disease Database. This ECG-Transformer method performs better than existing deep learning and other traditional methods in CCDD dataset.

Project

https://github.com/Mingfeng-Chen

- Including some machine learning projects, software front end and back end projects.
- Homepage: https://mingfeng-chen.github.io

Extracurricular Activity

Internship of Cooperation between School and Enterprise *Xi'an, China*

Front End *Dec. 2021 - Feb. 2022*

- Responsible for front-end microservice framework of Macaw.
- The project is currently applied as a development framework for large projects such as a map of Shaanxi Power Grid and intellectual property operation service platform.