

# RUOSHI XU

Southern University of Science and Technology(SUSTech), Shenzhen, China  
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## PROFILE

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I am an undergraduate student majoring in Intelligence Science and Technology at SUSTech, as well as a member of the SUSTech Turing Class (an honors program in the CS department, offering selected students advanced and in-depth learning opportunities). Currently, I am working in Professor Zhang Jianguo's research group focusing on deep learning and computer vision. I am seeking a research internship or visiting student position for the 2025 spring semester (about 2025.2 - 2025.8).

## EDUCATION

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<b>SUSTech, Shenzhen, Guangdong</b>	September 2022 - Present
Intelligence Science and Technology	GPA: 3.90 / 4.00
Computer Science and Engineering Department	Rank: 1/22

<b>Jinling High School, Nanjing, Jiangsu</b>	September 2019 - June 2022
Senior High School	College Entrance Examination Top 1%

## TECHNICAL SKILLS

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- Familiar with PyTorch programming to construct and debug deep learning models; Currently learning Rust programming.
- Familiar with machine learning libraries like Scikit-learn, Scipy, etc.
- Have basic knowledge about popular deep learning models, such as CNN, RNN, Transformer, GAN, etc.
- Experienced in PyCharm development in a remote Ubuntu server.
- Experienced in markdown and  $\LaTeX$  writing in VSCode and Overleaf.
- Currently learning convex optimization and information theories.

## MAJOR COURSEWORK

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- Deep Learning(95/100): Implemented and trained MLP, CNN, RNN, LSTM, and GAN in PyTorch framework. The theory of AE/VAE, GNN, and PCA are also covered in this course.
- Computer Vision(94/100): Implemented image filters, feature matching, scene recognition, and face detection from scratch or using OpenCV functions. Various knowledge of image processing and deep learning applied in CV are introduced in the course
- Introduction to Computer Programming(100/100): Developed a chess game named Jungle based on JavaFXGL and Maven.
- Linear Algebra(91/100): The theory of vector space, matrix decomposition, linear transformation, eigenvalues and eigenvectors, and quadratic form are included in this course.
- Calculus(96/100): Limit theory and calculus for single-variable and multi-variable cases are covered.
- Probability and Statistics(94/100): Basic knowledge about probability and statistics

## **COURSES TO TAKE(24 FALL)**

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- Machine Learning
- Convex Optimization and its Application in Machine Learning
- Information Theory and Coding
- Operating System
- Signal and System

## **EXTRA-CURRICULAR**

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- Peer Coach of SUSTech Zhixin College (2023-2024).
- President (2023-2024) and chief flute player (2022-2024) of SUSTech Philharmonic