

# Changshuo Shen

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## EDUCATION

<b>University of Science and Technology of China</b>	Hefei, China
<i>A Junior Undergraduate in School of Artificial Intelligence and Data Science</i>	<i>Sep 2023 – now</i>
<i>Class of excellence for science and technology: <b>Yan Jici Talent Program in Physics</b></i>	<i>Sep 2022 – June 2023</i>
<b>GPA: 3.84/4.3</b>	
<b>Rank in Class:</b> 6 / 49	
<b>Major:</b> Data Science and Big Data Technology	
<b>Core Course:</b> Linear Algebra B1 ( $A^+$ ), Discrete Mathematics ( $A^+$ ), Mathematical Analysis B1 ( $A$ ), Foundations of Geometry ( $A$ ), Function of Complex Variable B ( $A$ ), Probability Theory and Mathematical Statistics ( $A^-$ ), Computational Method ( $A^-$ ), Principles and Techniques of Artificial Intelligence ( $A^+$ ), Introduction to Data Analysis Programming ( $A^+$ ), Fundamentals of Scientific Programming with Python ( $A$ ), Data Structures ( $A$ ), Introduction to Computing Systems A ( $A$ ), Signals and Systems ( $A$ )	

## AWARD AND SCHOLARSHIP

• Outstanding Freshman Award(2022-2023) Grade 2(top 15%)	USTC 11/2022
• Basic Disciplines of The Top Plan Student Funding(Yan Jici Talent Program in Physics)	USTC 11/2022
• Di'ao Award	USTC 11/2023
• Huawei Award	USTC 11/2024
• National Encouragement Scholarship	USTC 11/2024
• Second Prize in the 15th National College Student Mathematics Competition	CMS 1/2024

## RESEARCH INTERESTS

**Large Language Models:** Particularly interested in the development and optimization of large language models, including enhancing their accuracy, efficiency, and ethical implications.

**Natural Language Processing:** Enthusiastic about leveraging LLMs for various NLP tasks such as text generation, sentiment analysis, and language translation.

**AI4Science:** Excited about the interdisciplinary applications of AI in scientific research, including accelerating discoveries in physics, chemistry, and biology through AI-driven models and simulations.

**Machine Learning:** Interested in applying advanced machine learning techniques to improve the training and performance of LLMs.

## SKILLS

**Programming Languages:** Python, C, C++, R

**Markup & Scripting Languages:**  $\text{\LaTeX}$ , Bash, HTML, CSS, JavaScript

**Tools & Technologies:** Git, Docker, SQL, Jupyter, Torch, Django

**Soft Skills:** Leadership, Team Collaboration, Problem-Solving, Communication, Public Speaking

## RESEARCH EXPERIENCE

<b>USTC-Software, IGEN Jamboree</b>	Paris, France
<i>Group Leader, Code Group</i>	<i>October 2024</i>
<ul style="list-style-type: none"><li>• Served as the leader of the code group for USTC-Software, leading the development of both frontend and backend components, ensuring seamless integration and optimal performance.</li><li>• Deployed machine learning models on the platform to enhance data visualization and analysis features.</li><li>• Presented the platform in the IGEN Jamboree in Paris, showcasing its functionalities and unique features to a global audience.</li><li>• Engaged with international teams to exchange ideas, foster collaboration, and gather feedback for continuous improvement.</li></ul>	

**Department of Physics, HKUST**

Hong Kong, China

*Exchange Program Participant*

*August 2023, one week*

- Engaged in an exchange program focusing on the intersection of machine learning and physics, including attending the "When Physics Meets Machine Learning" lecture series.
- Explored cutting-edge research and advancements in both fields under the mentorship of leading experts at HKUST.

**USTC**

Hefei, China

*Undergraduate Course Project*

- Simulated nonlinear dynamical systems using Python, analyzing behaviors and visualizing results. 11/2023
- Collaborated with one classmate to design a GoBang model using Reinforcement Deep Learning, surpassing the performance of the teaching assistant's basic model. 6/2024
- Led a two-person team to design an English club communication platform using the Django framework, providing a user-friendly interface for members to interact and share resources. 7/2024

**TEACHING ASSISTANT EXPERIENCES**

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- Discrete Mathematics(Undergraduate Course) 2024 Autumn

**EXTRACURRICULAR ACTIVITIES**

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**USTC English Club**

Sep 2022 – Present

*President*

*Sep 2023 – Sep 2024*

- Planned and coordinated club activities, summarized work, and evaluated outcomes.
- Organized the largest outdoor treasure hunt event in the club's history, the USTC Mystery Hunt.
- Managed the club's official account, designed promotional materials, and wrote publicity articles.

**Department Basketball Team**

Sep 2022 – Present

*Team Member*

*Sep 2022 – Present*

- Played in almost all basketball games at USTC, including the Freshman Basketball Tournament, Kexing Cup, and the Four-Nation Battle.

**Fitness, Basketball, and Taekwondo Clubs**

Sep 2022 – Present

*Member*

*Sep 2022 – Present*

- Participated in various fitness and sports activities, promoting a healthy and active lifestyle.

**STATEMENTS OF PURPOSE**

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