# Siwei Luo

Undergraduate Student at School of the Gifted Young, University of Science and Technology of China

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#### Skills

#### LaTeX

Using LaTeX to demonstrate & edit scientific documents



#### **Programming**

Using C++ and Python to perform program



Programming

## **Selected Core Courses**

# Introduction to Partial Differential Equations

Mathematics, Score: 91/100

#### Topology (H)

Mathematics, Honor Course, Score: 93/100

# Algebra I: Fundamentals of Algebra

Mathematics, Score: 97/100

#### Complex Analysis (H)

Mathematics, Honor Course, Learning

#### Algebra II: Abstract Algebra (H)

Mathematics, Honor Course, Learning

# Real Analysis (H)

Mathematics, Honor Course, Learning

# (Advanced) Probability Theory

#### Languages

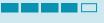
#### Chinese

Native Language



#### **English**

TOEFL 102 (R 29 L 24 S 21 W 28)



Date of Birth: Sep 10, 2007.

**Keywords: Self-learning, Pure Mathematics, Applied Mathematics** 

#### **Education**

University of Science and Technology of China

Mathematics (Expected Graduation: June 2027)

September 2023 - Present

Bachelor of Science

GPA 3.95/4.30 (91.43/100)

https://academic.luosw.com.cn

- Ranked 15th/205 among all students majoring in Mathematics at USTC
- Relevant Coursework: Partial Differential Equations, Topology, Algebra, Probability Theory.

# **Experience**

#### **Algebra and Number Theory Summer School**

July 2024 - August 2024 Beijing, China

Institute of Mathematics, Chinese Academy of Science https://antss.amss.ac.cn

- Advisor: Prof. Shouwu Zhang (Princeton University)
- Learning courses of Algebraic Geometry, Algebraic Number Theory and Representation Theory of finite groups

# Representation Theory Seminar

March 2025 - June 2025

University of Science and Technology of China

USTC

• Advisor: Prof. Shucheng Yu

I was invited to perform 3 lectures on the construction of representations, Schur's lemma, Maschke's theorem, and the irreducible decomposition of regular representations of finite groups. The main textbook is P. WEBB *A Coursein Finite Group Representation Theory*.

# Freshman Science & Society Seminar

March 2024 - June 2024

University of Science and Technology of China

Anhui, Hefei

- Advisor: Prof. Xiaosong He (University of Science and Technology of China)
- We constructed an experiment to discover the relationship between attention and the working memory. Additionally, we also attempted to discover the method by which we remember colours in working memory.

#### **Honors**

### **Honorable Mention in Written Exam**

May 2025

2025 S.-T. Yau College Student Mathematics Contest

http://yau-contest.com/show-86-81.html

- Rank 29 among the undergraduates taking the written exam on Analysis and Partial Differential Equations
- S.-T. Yau College Student Mathematics Contest is initiated by Professor Shing-Tung Yau in 2010. It focuses on selecting excellent mathematical talents according to the standards of postgraduate examination in first-class universities abroad.

#### Member of the School of the Gifted Young

September 2023 - Present

School of the Gifted Young

https://sgy.ustc.edu.cn/main.htm

# Member of the Hua Loo-Keng Talent Program in Mathematics

September 2024 - Present

Department of Mathematics, USTC <a href="https://math.ustc.edu.cn/hlgb/list.htm">https://math.ustc.edu.cn/hlgb/list.htm</a>

# **Outstanding Freshman Scholarship**

October 2023

School of the Gifted Young, USTC

Scholarship for Hua Loo-Keng Talent Program in Mathematics November 2024 Department of Mathematics, USTC

**Chen Linyi Honored Scholarship** 

September 2024

Ranked 2nd/40 in class