Siwei Luo

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

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- Siwei Luo

Skills

LaTeX

Using LaTeX to demonstrate & edit scientific documents

Edition, Writing

Programming

Using C++ 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

Languages

Chinese

Native Language

English

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

Education

University of Science and Technology of China — **September 2023 - Present**

Mathematics (Expected Graduation: June 2027) — Bachelor of Science

GPA 3.94/4.30 (91.33/100)

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

Experience

Algebra and Number Theory Summer School — **July 2024 - August 2024**

Institute of Mathematics, Chinese Academy of Science — Beijing, China

- 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

Differential Manifolds Seminar — **January 2025**

University of Science and Technology of China — Online

- Textbook: *Introduction to Smooth Manifolds.* John M. Lee.
- Introducing concepts of smooth manifolds, such as differential of smooth maps, Sard's theorem, basic Lie groups, etc.

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.

USTC-FDU Talented Program Communication Seminar — **November 2024**

Fudan University — Shanghai, China

- Advisors: **Prof. Zhe Sun** (USTC) & **Prof. Xinan Ma** (USTC)
- Engaged in communications with undergraduates at FDU of mathematical courses.

Honors

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

- https://math.ustc.edu.cn/hlgb/list.htm

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