Ruizhe Li

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Biography and Research Interests

I'm now in the department of mathematics at Southern University of Science and Technology. In the first two years of my undergraduate career, I studied pure maths. What I loved most is the finite group theory. And I follow (Caiheng Li ☒) to study this field. But when I'm taking the convex optimization class(2024 fall), I begin to be interested in optimization gradually. Thanks to this course's teacher(Xuyang Wu ☒), he lead me to the asynchronous optimization field and I really love it.

Education

Southern University of Science and Technology   *Sept. 2022 – Present*
BS in Mathematics and Applied Mathematics
- GPA: 3.89/4.0
- Fields Honor class, led by the Fields Medal Winner Efim Zelmanov

Research Experience

Convergence conditions for asynchronous optimization algorithms   *Shenzhen, China*
                                                                          Sep. 2024 - Present
Advised by Xuyang Wu ☒
- Explore a broader scope of conditions in which many asynchronous optimization algorithms converges
- Study the convergence rate and time complexity of asynchronous optimization algorithms and find a more precise bound.

Seminars

Set theory   *Mar. 2023 - Jul. 2023*
Advised by Bochen Liu ☒

Fourier Analysis   *Sep. 2023 - Jan. 2024*
Advised by Bochen Liu ☒

Harmonic Analysis   *Sep. 2024 - Present*
Advised by Bochen Liu ☒

SKILLS & HONORS

Languages: Chinese(native),English(fluent)

Programming Languages: Java, Python

Scholarship: Merit Student Scholarship of SUSTech   *Oct. 2023*
Outstanding Student of SUSTech   *Nov. 2023*
Merit Student Scholarship of SUSTech   *Oct. 2024*

Outstanding Student of SUSTech	*Oct. 2024*
Competition: National Second prize in China Undergraduate Mathematical Contest in Modeling (As the captain)	*Oct. 2023*
First prize in China Undergraduate Mathematical Contest	*Oct. 2024*