SHUCHEN LI

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EDUCATION

Peking University, Beijing, China　　　　　　　　　　　　　September 2018 – June 2022 (expected)
B.S., Computer Science, *Turing Class (an elite class founded by Prof. John E. Hopcroft)*
Overall GPA: 3.85/4.00 (rank: 5/231, top 2%), Major GPA: 3.95/4.00

VISITING

Institute of Computing Technology, Chinese Academy of Sciences　　　　　　　July 2021 – Present
Advisor: Prof. Xiaoming Sun, Qian Li

RESEARCH INTERESTS

Theoretical Computer Science, especially Boolean function analysis, complexity theory, and their interplay and connection with mathematics

AWARDS & SCHOLARSHIPS

John Hopcroft Scholarship, Turing Class　　　　　　　　　　　　　　　　　　　　2020
Merit Student, Pacesetter, (Top 2.5% in) Peking University　　　　　　　　　　　　2019
Peking University Scholarship　　　　　　　　　　　　　　　　　　　　　　　　2019
Jiang Zehan Mathematical Constest in Modeling of Peking University, First Prize, Ranked 1st　　2019

TEACHING EXPERIENCES

Fundamentals of Cryptography　　　　　　　　　　　　　　　　　　　　　　　Fall 2021
Teaching Assistant, *Peking University (Instructor: Guang Yang)*

Discrete Mathematics and Structures　　　　　　　　　　　　　　　　　　　Fall 2020
Teaching Assistant, *Peking University (Instructor: Xiaotie Deng)*

PROJECTS

MusiCTM: On Music Composing by CTM　　　　　　　　　　　　　　　　　April 2021
Collaborator: Zongyuan He, Chang Wang
Advisor: Manuel Blum, Lenore Blum

- We formulated the process of music composing in the language of Conscious Turing Machine (CTM) proposed by Manuel Blum and Lenore Blum, and try to find out how creativity comes into being.

TALKS

Fourier Analysis on the Boolean Cube　　　　　　　　　　　　　　　　　December 2021
Tutorial, at *Center on Frontiers of Computing Studies, Peking University*

MusiCTM: On Music Composing by CTM　　　　　　　　　　　　　　　　August 2021
International Joint Conference on Theoretical Computer Science, 2021

ACTIVITIES

Student Volunteer, in International Joint Conference on Theoretical Computer Science, 2020　　August 2020

LANGUAGE

Chinese (Native)
English (Fluent)

- **TOEFL iBT:** 100 (R27, L23, S22, W28)　　　　　　　　　　　　　　　October 25, 2021
- **GRE:** 158 + 170 + 3.5　　　　　　　　　　　　　　　　　　　　　　October 11, 2021