

Ke Shi

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EDUCATION

University of Electronic Science and Technology of China

*Bachelor in Computer Science (also **Honor Bachelor**); GPA: 3.88/4.00*

ChengDu, China

Sep 2019 – Jun 2023

University of Science and Technology of China

Master's student in Computer Science; GPA: 4.11/4.30

HeFei, China

Sep 2023 – Jun 2026 (Expected)

PUBLICATIONS

A Polynomial Time Algorithm for Finding a Minimum 4-Partition of a Submodular Function

Tsuyoshi Hirayama, Yuhao Liu, Kazuhisa Makino, Ke Shi, Chao Xu SODA 2023 & Mathematical Programming 2023

Almost optimal ℓ -coveing of \mathbb{Z}_n

Ke Shi, Chao Xu

COCOON 2024

MANUSCRIPTS

Strong spatial mixing for the matching polynomial: A simple proof via Heilmann–Lieb Theorem

Shuai Shao, Ke Shi

Strong Spatial Mixing for Ferromagnetic Ising Models: A Novel Perspective from Edge Activity

Shuai Shao, Ke Shi

An Optimal Algorithm for the Stack Crane Problem on Fixed Topologies

Yike Chen, Ke Shi, Chao Xu

COMPETITIONS

14th National College Student Mathematics Competition

Non-Mathematics Majors Group

Champion of the Finals

May 2023

13th National College Student Mathematics Competition

Non-Mathematics Majors Group

First Prize in the Finals

March 2023

12th National College Student Mathematics Competition

Non-Mathematics Majors Group

First Prize in the Finals

May 2021

OPENSOURCE CONTRIBUTION

Google Summer of Code 2024

supported by Google

GeomScale / Dingo

Jul 2024 – Aug 2024

Open Source Promotion Plan 2024

supported by Institute of Software Chinese Academy of Sciences

Mogan Editor

Jul 2024 – Sep 2024

WORK EXPERIENCE

Vortex

SDE Intern

China

Oct 2024

Vortex

Algorithm Engineer Intern

China

May 2025 – Oct 2025 (Expected)