

Ke Chen

PhD Student in Computer Graphics

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Research Interests

Computer Graphics; Computational Design; Geometric Modeling.

Education

University of Science and Technology of China (USTC) Sep. 2023 – Present

PhD Student in Computer Graphics

Research Advisors: [Prof. Ligang Liu](#) and [Prof. Peng Song](#)

Singapore University of Technology and Design (SUTD) Sep. 2024 – Apr. 2026

Visiting Student in Computer Graphics

Host Advisor: [Prof. Peng Song](#)

University of Science and Technology of China (USTC) Sep. 2019 – Jun. 2023

B.S. in Information and Computing Science

Advisor: [Prof. Ligang Liu](#)

Overall GPA: 3.84/4.3 · Rank: 4/40 in major

Publications

[1] **mpcGear: Multi-Point Conjugation Gear Mechanisms**
Ke Chen, Joshua John Shi Kai Lee, Jianmin Zheng, Ligang Liu, Peng Song.
[SIGGRAPH](#) Conference Papers, 2026. [\[Project\]](#) [\[PDF\]](#) [\[DOI\]](#)

[2] **Computational Design of Coordinate-Motion Assemblies**
Yukun Lu, **Ke Chen**, Ligang Liu, Peng Song.
[SIGGRAPH](#) Conference Papers, 2026. [\[Project\]](#) [\[PDF\]](#) [\[DOI\]](#)
Selected for inclusion in the [Technical Papers Video Trailer](#).

[3] **mpcMech: Multi-Point Conjugation Mechanisms**
Ke Chen, Siqi Li, Peng Song, Jianmin Zheng, Ligang Liu.
ACM Transactions on Graphics (Proc. [SIGGRAPH Asia](#)), 43(6), 2024. [\[Project\]](#) [\[PDF\]](#) [\[DOI\]](#)

Research Experience

High-Order Nonlinear Interpolation for Jun. 2021 – Apr. 2023

Discontinuous Functions and Applications

Undergraduate Innovation Training Program, USTC

Advisor: Prof. Yinhua Xia

Teaching Experience

Teaching Assistant, USTC Fall 2022

MATH1003.01: Mathematical Analysis A3 (Series & Fourier Analysis)

Honors & Awards

National Scholarship for Graduate Students Nov. 2024

University-level Outstanding Undergraduate Thesis Award, USTC Jun. 2023

Thesis: *Mechanism Design based on Gears*

Academic Service

Reviewing: ACM SIGGRAPH; ACM SIGGRAPH Asia.