

GEFEI CAI

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*Beijing International Center for Mathematical Research, Peking University,
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EDUCATION

Peking University	Sept. 2022 - Present
Graduate, Probability and Mathematical Statistics	Advisor: Xinyi Li
Peking University	Sept. 2019 - June 2022
Under Graduate, Mathematics and Applied Mathematics	

AWARDS AND HONORS

First Prize Scholarship	Peking University, 2020
Honor of Merit Student	Peking University, 2020
Excellent Graduate	Peking University, 2022
President Scholarship	Peking University, 2022

RESEARCH

Research Interests

Schramm-Loewner Evolution; Liouville quantum gravity;
· Critical statistical physics models; Conformal field theory.

Publications

- G. C., W. Li and T. Mesikepp. Quasisymmetric geometry of low-dimensional random spaces. *Arxiv e-print arXiv:2412.06366*.
- M. Ang, G. C., X. Sun and B. Wu. Integrability of Conformal Loop Ensemble: Imaginary DOZZ and Beyond. *Arxiv e-print arXiv:2107.01788v3*.
- M. Ang, G. C., X. Sun and B. Wu. SLE Loop Measure and Liouville Quantum Gravity. *Arxiv e-print arXiv:2409.16547*.
- G. C. and X. Li. On Natural Measures of SLE- and CLE-Related Random Fractals. *Annales de l'Institut Henri Poincaré, Probabilités et Statistiques*, 60(4), 2297-2327, Nov. 2024.