

Yi Tian

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EDUCATION

- | | |
|-------------------|---|
| 10/2024 - Present | University of Cambridge
<i>PhD in Pure Mathematics and Mathematical Statistics</i>
Advisor: Jason Miller |
| 10/2022 - 08/2024 | Universität Bonn
<i>MSc in Mathematics</i>
Advisor: Eveliina Peltola |
| 09/2018 - 07/2022 | Peking University
<i>BSc in Mathematics and Applied Mathematics</i>
Advisor: Zhiyu Tian |

PAPERS

- Existence and uniqueness of the conformally invariant geodesic metric on conformal loop ensembles of central charge one (with E. Kammerer, K. Kavvadias, J. Miller, and W. Werner). In preparation.
- Existence and uniqueness of the Brownian motion on simple conformal loop ensemble carpets (with J. Miller). In preparation.
- Existence and uniqueness of the conformally covariant geodesic metric on simple conformal loop ensemble carpets (with J. Miller). arXiv:2511.16208

TALKS

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| CIRM Aug 2025 | The conformally covariant geodesic metric on simple conformal loop ensembles
<i>Combinatorial and hyperbolic random planar geometry</i> |
| Bonn Jul 2025 | The conformally covariant geodesic metric on simple conformal loop ensembles
<i>Probabilistic methods in quantum field theory</i> |

TEACHING

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|--------------------------------|---|
| University of Cambridge | |
| Michaelmas 2025 | Teaching Assistant of <i>Random Discrete Structures</i> |
| Universität Bonn | |
| WiSe 2023/2024 | Teaching Assistant of <i>Markov Processes</i> |

AWARDS

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|-------------|---|
| 2024 - 2027 | Cambridge International Scholarship
<i>Cambridge Trust</i> |
| 2022 | Huaxin Scholarship
<i>BICMR, Peking University</i> |
| 2017 | Gold Medal of the 33rd Chinese Mathematical Olympiad |