

KABIR ROHIT KHANNA

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EDUCATION

SEP '25 – PRESENT	PhD in Physics, University of Geneva , Geneva, Switzerland. Advisor: Romain Vasseur [<i>Relocated</i>].
SEP '23 – SEP '25	PhD in Physics, University of Massachusetts Amherst , Amherst, Massachusetts. Advisor: Romain Vasseur .
OCT '22 – JUN '23	MSc Mathematical and Theoretical Physics, University of Oxford , Wadham College, Oxford, UK. Overall grade: Distinction. Thesis: <i>Long Range Entanglement via Anomalies From Measurements</i> .
AUG '17 – MAY '22	Dual Degree, Indian Institute of Technology Madras , Chennai, Tamil Nadu. B.Tech. in Engineering Design + M.Tech. in Quantum Science & Technology. CGPA: 9.41/10; Rank: 3/57. Thesis: <i>Aspects of Quantum Information in Curved Spacetimes</i> .

PUBLICATIONS AND PREPRINTS

2026	Universal Statistics of Measurement-Induced Entanglement in Tomonaga-Luttinger Liquids , Kabir Khanna and Romain Vasseur, <i>SciPost Phys.</i> 21 , 100 (2026). [doi] [arXiv]
2026	Postselected Criticality in Measurement-Induced Phase Transitions , Dolly Nambi, Kabir Khanna, Andrew Allocca, Thomas Iadecola, Ciarán Hickey, Romain Vasseur, and Justin H. Wilson, <i>Phys. Rev. Lett.</i> 137 , 130403 (2026). [doi] [arXiv]
2026	Measurement-Induced Entanglement in Conformal Field Theory , Kabir Khanna and Romain Vasseur, <i>Phys. Rev. Lett.</i> 136 , 160402 (2026). [doi] [arXiv]
2026	Random Quantum Circuits with Time-Reversal Symmetry , Kabir Khanna, Abhishek Kumar, Romain Vasseur, and Andreas W. W. Ludwig, <i>Phys. Rev. Research</i> 8 , 013165 (2026). [doi] [arXiv]
2026	Replica Transition at Measurement-Altered Ising Criticality , Kabir Khanna, Sara Murciano, and Romain Vasseur, arXiv:2610.13802 (preprint). [arXiv]
2026	Theory of Measurement-Altered Criticality , Kabir Khanna, Sara Murciano, and Romain Vasseur, arXiv:2608.05289 (preprint). [arXiv]
2023	Decoherence due to Spacetime Curvature , Raghvendra Singh, Kabir Khanna, and Dawood Kothawala, arXiv:2302.09038 (preprint). [arXiv]

INVITED/CONFERENCE TALKS, SUMMER SCHOOLS, AND LECTURES DELIVERED

JUN 2026	[<i>Delivered lectures</i>] QLANDS Summer School on Non-Equilibrium, Circuits, and Complexity — Exercise sessions on statistical mechanics of random quantum circuits.
MAY 2026	[<i>Attended school</i>] Les Alps 3 — Generalized symmetries.
JAN 2026	[<i>Delivered talk</i>] Swiss Quantum Days — Measurement-Induced Entanglement in Gapless Quantum Matter.
AUG 2025	[<i>Delivered lectures</i>] HRI Allahabad — Random Quantum Circuits and Their Statistical Mechanics.
AUG 2025	[<i>Delivered talk</i>] HRI Allahabad — Measurement-Induced Entanglement in Conformal Field Theory.
MAR 2025	[<i>Delivered talk</i>] APS March Meeting — Random Quantum Circuits with Time-Reversal Symmetry.

TEACHING AND VOLUNTEERING

OCT – JAN 2026	Teaching Assistant for Classical Mechanics 2 , University of Geneva.
FEB – MAY 2026	Teaching Assistant for Theory Modules , University of Geneva.
FEB – MAY 2024	Teaching Assistant for Astronomy 105 – Weather , UMass Amherst.
SEP – DEC 2023	Teaching Assistant for Physics 118 – Weather and Our Atmosphere , UMass Amherst.
JAN – MAY 2022	Teaching Assistant for PH3520 Quantum Physics , IIT Madras.
MAY – JUL 2018	Mathematics and Physics Tutor , Lamdon School, Leh, Ladakh.

AWARDS AND HONORS

2023	Graduate Fellowship , UMass Amherst (\$5000).
2022	OCSI Scholarship , Oxford Cambridge Society of India.
2021	DAAD WISE Research Scholarship (awarded; not accepted).
2019	Partial funding to attend the Wolfram Summer School , Waltham, Massachusetts.
2018	Best Volunteer , NSS IIT Madras.
2017	Silver medal for a top-4000 rank in JEE Advanced 2017 (out of approximately 1.2 million students).
2015	Best Outgoing Student , DPS Secunderabad.

Last update: Oct 2026