

HASSAAN SALEEM

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[Inspire](#) ♦ [Google Scholar](#) ♦ [LinkedIn](#)

RESEARCH INTERESTS

- String Theory (supersymmetric and non-supersymmetric)
- String compactifications and the swampland program
- 2-dimensional Conformal Field Theories

EDUCATION

- Ph.D. in Theoretical Physics, SUNY Albany, Albany, New York Jan 2021 - Present
 - Ph.D. Dissertation: In preparation
 - Doctoral Advisor: Dr. Daniel Robbins
- Master of Science in Physics, SUNY Albany, New York Jan 2021 - May 2023
- HECAP Postgraduate diploma, ICTP, Trieste, Italy Sep 2019 - Aug 2020
 - Master Thesis: [Magnetic Monopoles, duality and Supersymmetry](#)
 - Thesis advisor: Dr. K.S. Narain
- Master of Science in Physics, University of the Punjab Oct 2018 - Dec 2020
 - Thesis: [Review of Seiberg Witten duality](#)
 - Thesis Advisor: Dr. Bushra Haider
- Bachelor of Science in Physics, University of the Punjab Oct 2014 - May 2018

LIST OF PUBLICATIONS

- Daniel Robbins and Hassaan Saleem. “ $O(16) \times O(16)$ heterotic theory on $AdS_3 \times S^3 \times T^4$ ”. In: *JHEP* 03 (2026), p. 212. DOI: [10.1007/JHEP03\(2026\)212](https://doi.org/10.1007/JHEP03(2026)212). arXiv: [2510.20915](https://arxiv.org/abs/2510.20915) [[hep-th](#)]
- Ivano Basile, Daniel Robbins, and Hassaan Saleem. “Non-supersymmetric heterotic strings on $AdS_4 \times S^3 \times S^3$ ”. In: *SciPost Phys.* 21 (2026), p. 028. DOI: [10.21468/SciPostPhys.21.1.028](https://doi.org/10.21468/SciPostPhys.21.1.028). URL: <https://scipost.org/10.21468/SciPostPhys.21.1.028>
- Yucong Cai, Daniel Robbins, and Hassaan Saleem. “Constraining boundary conditions in nonrational CFTs”. In: *Phys. Rev. D* 113 (10 2026), p. 106017. DOI: [10.1103/44rr-dz2y](https://doi.org/10.1103/44rr-dz2y). URL: <https://link.aps.org/doi/10.1103/44rr-dz2y>
- Ariel Caticha and Hassaan Saleem. “Entropic Dynamics Approach to Relational Quantum Mechanics”. In: *Entropy* 27.8 (2025), p. 797. DOI: [10.3390/e27080797](https://doi.org/10.3390/e27080797). arXiv: [2506.07921](https://arxiv.org/abs/2506.07921) [[quant-ph](#)]
- Daniel Robbins, Subham Roy, and Hassaan Saleem. *Boundaries of the compact free boson through edge modes and boundary SymTFT*. 2026. arXiv: [2609.30371](https://arxiv.org/abs/2609.30371) [[hep-th](#)]. URL: <https://arxiv.org/abs/2609.30371>
- Daniel Robbins and Hassaan Saleem. “Maximal and Non-maximal extrema of nonsupersymmetric heterotic strings”. In preparation

INVITED TALKS

- Eurostrings 2024: Parallel session [talk](#) ([Recording](#)) Sep 2024
- OIST, Okinawa, Japan: Quantum Gravity seminar [talk](#) ([Recording](#)) Feb 2026
- McGill University, Montreal, Canada: Theory HEP seminar [talk](#) ([Recording](#)) Mar 2026

- Stringy Seminars series: Seminar talk ([Recording](#)) Mar 2026
- Masaryk University, Czechia: Theory seminar ([Recording](#)) Apr 2026
- String Pheno series: Seminar [talk](#) ([Recording](#)) May 2026
- PMQFTSS 2026: Gongshow talk Jul 2026
- LUMS, Pakistan: Seminar talk ([Recording](#)) Sep 2026

CONFERENCES AND WORKSHOPS ATTENDED

- [Eurostrings 2024](#), University of Southampton, UK Sep 2024
- 22nd Simons Physics Summer [Workshop](#), SCGP, SUNY Stony Brook, NY, USA Aug 2025
- Physical Mathematics Summer [School](#) (PMQFTSS), UMass Amherst, MA, USA Jul 2026
- 23rd Simons Physics Summer [Workshop](#), SCGP, SUNY Stony Brook, NY, USA Aug 2026
- [Mirror Symmetry, Calabi-Yau Threefolds, and Connections to Physics](#), ICERM, Brown University, Rhode Island, USA Sep-Oct 2026

ACADEMIC SERVICES

- Lecturer for ICTP Physics Without Frontiers, [School](#) on GR and Cosmology May - July 2025
Recordings of the lectures: [Lecture 5](#), [Lecture 6](#), [Lecture 7](#), [Lecture 8](#)
- Mentor for ICTP Physics Without Frontiers' mentorship [program](#) July - Oct 2026

AWARDS & HONORS RECEIVED

- Excellence in Comprehensive Exam Performance Award, at Department of Physics, SUNY Albany. May 2021
- Best student talk award at 2023 PASCAL conference, at Department of Physics, SUNY Albany. Dec 2023
- Akira Inomata Award for excellence in theoretical Physics research, at Department of Physics, SUNY Albany. May 2026
- Full member at Sigma Xi Honorary Society. May 2026 - Present

SCIENTIFIC OUTREACH

I am involved in several scientific outreach efforts. A list of them can be found [here](#).

OTHER INTERESTS

Other than Physics and Mathematics, I am very interested in ethical and political philosophy, philosophy of science, and other related topics. My reading list is available on my [Goodreads account](#).