

Adithya Sriram

December 26, 2024

PhD. Student

Dept. of Physics, Stanford University

adithyas@stanford.edu

Palo Alto, CA, 94306

EDUCATION

Stanford University

2021-

Ph.D. in Physics (In Progress)

Advisor: Vedika Khemani

University of Pennsylvania

2016-2020

M.S. in Physics

B.A in Physics & Biophysics

Distinction in Physics and Biophysics, Summa Cum Laude

B.S.E. in Chemical Engineering

PUBLICATIONS

- [1] O'Dea*, Nicholas and **Sriram***, **Adithya**. *Entanglement Oscillations from Many-Body Quantum Scars*. 2024. arXiv: 2410.11822 [cond-mat.stat-mech].
- [2] **Sriram**, **Adithya**, O'Dea, Nicholas, Li, Yaodong, Rakovszky, Tibor, and Khemani, Vedika. *Non-Uniform Noise Rates and Griffiths Phases in Topological Quantum Error Correction*. 2024. arXiv: 2409.03325 [quant-ph].
- [3] **Sriram**, **Adithya**, Rakovszky, Tibor, Khemani, Vedika, and Ippoliti, Matteo. "Topology, criticality, and dynamically generated qubits in a stochastic measurement-only Kitaev model". *Phys. Rev. B* 108 (9 Sept. 2023), p. 094304.
- [4] Viñas Boström, Emil, **Sriram**, **Adithya**, Claassen, Martin, and Rubio, Angel. "Controlling the magnetic state of the proximate quantum spin liquid α -RuCl₃ with an optical cavity". *npj Computational Materials* 9.1 (2023), p. 202.
- [5] **Sriram**, **Adithya** and Claassen, Martin. "Light-induced control of magnetic phases in Kitaev quantum magnets". *Phys. Rev. Research* 4 (3 Sept. 2022), p. L032036.
- [6] Gao, Z., Ducos, P., Ye, H., Zauberman, J., **Sriram**, **A.**, Yang, X., Mitchell, M. W., Lekkas, D., Brisson, D., and Johnson, A. T. C. "Graphene transistor arrays functionalized with genetically engineered antibody fragments for Lyme disease diagnosis." *2D Materials* 7.2 (2020).
- [7] Vishnubhotla, R., **Sriram**, **A.**, Dickens, O. O., Mandyam, S. V., Ping, J., Adu-Beng, E., and Johnson, A. T. C. "Attomolar Detection of ss-DNA Without Amplification and Capture of Long Tar-

get Sequences With Graphene Biosensors.” *IEEE Sensors Journal* 20.11 (2020), pp. 5720–5724.

AWARDS

National Science Foundation Graduate Research Fellowship	2020
Fulbright U.S. Student Program Scholarship	2020
University of Pennsylvania Dean’s Scholar	2020
Roy and Diana Vagelos Science Challenge Award	2019
Phi Beta Kappa Junior Inductee	2019
NASA Pennsylvania Space Grant Consortium Scholarship	2019

RESEARCH EXPERIENCE

Graduate Research Assistant, <i>Stanford University</i> Advisor: Vedika Khemani	2021–
Post-Bacc Researcher, <i>University of Pennsylvania & Center for Computational Quantum Physics</i> Advisor: Martin Claassen	2020–2021
Fulbright Scholar, <i>Max Planck Institute for Quantum Optics</i> Advisor: Vladislav Yakovlev	2021–2021
Undergraduate Research Assistant, <i>University of Pennsylvania</i> Advisor: A.T. Charlie Johnson	2017–2020

TEACHING

PHYSICS 470: Many Body Quantum Dynamics, <i>Stanford University</i>	2024–2024
PHYSICS 43: Electricity and Magnetism, <i>Stanford University</i>	2022–2022
PHYS 137: Community Physics Initiative, <i>University of Pennsylvania</i>	2018–2020
PHYS 411/412: Quantum Mechanics, <i>University of Pennsylvania</i>	2018–2020
Physics Curriculum Chair, Moelis Access Science, <i>Netter Center for Community Partnerships</i>	2018–2020
CHEM 251: Biochemistry, <i>University of Pennsylvania</i>	2019–2019

Volunteer Teacher,
Access Engineering

2018–2019

PHYS 151: Electromagnetism Lab,
University of Pennsylvania

2018–2018