

Stanford



Hari Manoharan

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CONTACT INFORMATION

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Bio

ACADEMIC APPOINTMENTS

- Associate Professor, Physics
- Faculty Affiliate, Institute for Human-Centered Artificial Intelligence (HAI)
- Principal Investigator, Stanford Institute for Materials and Energy Sciences

Teaching

COURSES

2023-24

- Quantum Information: Visions and Emerging Technologies: PHYSICS 14N (Spr)
- Quantum and Thermal Physics: PHYSICS 71 (Win)

2022-23

- Quantum Mechanics I: PHYSICS 130 (Spr)
- Quantum and Thermal Physics: PHYSICS 71 (Win)

2021-22

- Quantum Mechanics I: PHYSICS 130 (Win)

2020-21

- Frontiers of Physics Research: PHYSICS 59 (Aut)
- Quantum Mechanics I: PHYSICS 130 (Win)

STANFORD ADVISEES

Doctoral Dissertation Co-Advisor (AC)

Ben Safvati

Publications

PUBLICATIONS

- **Nanoscale Electronic Transparency of Wafer-Scale Hexagonal Boron Nitride.** *Nano letters*
Zerger, C. Z., Rodenbach, L. K., Chen, Y., Safvati, B., Brubaker, M. Z., Tran, S., Chen, T., Li, M., Li, L., Goldhaber-Gordon, D., Manoharan, H. C.
2022
- **Signatures of two-dimensional superconductivity emerging within a three-dimensional host superconductor.** *Proceedings of the National Academy of Sciences of the United States of America*
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- **Quantum engineered Kondo lattices.** *Nature communications*
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- **Phase Separation of Dirac Electrons in Topological Insulators at the Spatial Limit** *NANO LETTERS*
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2017; 17 (1): 97-103
- **Activating and optimizing MoS₂ basal planes for hydrogen evolution through the formation of strained sulphur vacancies** *NATURE MATERIALS*
Li, H., Tsai, C., Koh, A. L., Cai, L., Contryman, A. W., Fragapane, A. H., Zhao, J., Han, H. S., Manoharan, H. C., Abild-Pedersen, F., Norskov, J. K., Zheng, X.
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2015; 6
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2015; 6: 7381-?
- **Stripe-like nanoscale structural phase separation in superconducting BaPb_{1-x}BixO₃.** *Nature communications*
Giraldo-Gallo, P., Zhang, Y., Parra, C., Manoharan, H. C., Beasley, M. R., Geballe, T. H., Kramer, M. J., Fisher, I. R.
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- **Unconventional molecule-resolved current rectification in diamondoid-fullerene hybrids** *NATURE COMMUNICATIONS*
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