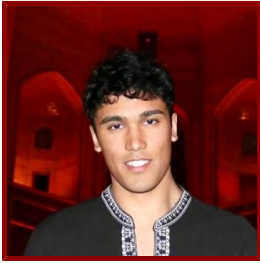



Stanford



Areeq Hasan

Ph.D. Student in Applied Physics, admitted Autumn 2024

 Resume available Online

Bio

BIO

Exploring the experimental quantum information and fundamental physics of strongly-correlated many-body systems and creating new ways to control their dynamics using ultracold atoms.

EDUCATION AND CERTIFICATIONS

- BSE, Princeton University , Electrical and Computer Engineering (2024)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Interested in the fundamental physics of strongly-correlated quantum many-body systems and creating new ways to control their dynamics; in particular, how nature invokes entanglement in the physics of many-body systems by experimentally investigating the intricate structures of correlations that nature favors and their effects on coherent quantum dynamics towards understanding the information theoretic essence of entanglement as a computational resource. Interested in building new ways to control the coherent quantum dynamics of strongly-correlated many-body systems towards the end of quantum information processing. Intending to use the experimental platform of ultracold atoms towards this end.

Professional

WORK EXPERIENCE

- Quantum Engineer Summer Intern (Systems) - IBM Quantum (May 23, 2022 - August 12, 2022)