

Stanford



Jeongwan Haah

Associate Professor of Physics and, by courtesy, of Mathematics

CONTACT INFORMATION

- **Administrative Contact**

Denise Jones

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Bio

ACADEMIC APPOINTMENTS

- Associate Professor, Physics
- Associate Professor (By courtesy), Mathematics

Teaching

COURSES

2025-26

- Quantum Error Correction: PHYSICS 430 (Spr)

2024-25

- Quantum Error Correction: PHYSICS 430 (Win)

STANFORD ADVISEES

Orals Chair

Jack Zhou

Doctoral Dissertation Advisor (AC)

Jeffrey Kwan

Publications

PUBLICATIONS

- **Short remarks on shallow unitary circuits** *QUANTUM*
Haah, J.
2025; 9
- **Efficient Approximate Unitary Designs from Random Pauli Rotations** *COMMUNICATIONS IN MATHEMATICAL PHYSICS*
Haah, J., Liu, Y., Tan, X.
2025; 406 (12)

- **A quantum cellular automaton for every symmetry protected topological phase** *PHYSICAL REVIEW B*
Fidkowski, L., Haah, J., Hastings, M. B.
2025; 112 (3)
- **Topological Phases of Unitary Dynamics: Classification in Clifford Category** *COMMUNICATIONS IN MATHEMATICAL PHYSICS*
Haah, J.
2025; 406 (4)