

Vishnu Iyer

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Education

University of Texas at Austin *August 2021 - present*
PhD program in Computer Science

University of California at Berkeley *August 2016 - May 2020*
B.S. in Electrical Engineering and Computer Science with Highest Honors (\sim top 3%)

Experience

Summer Research Intern, Sandia National Labs *May 2023 - August 2023*
Research Assistant to Prof. Scott Aaronson (UT Austin) *August 2021 - present*
Research Assistant to Prof. Avishay Tal (UC Berkeley) *April 2020 - August 2021*
Research Assistant to Prof. Prasad Raghavendra (UC Berkeley) *March 2019 - March 2020*

Publications ¹

5. *Efficient Learning of Quantum States Prepared With Few Non-Clifford Gates II: Single Copy Measurements* *ArXiv, August 2023*
Sabee Grewal, **Vishnu Iyer**, William Kretschmer, Daniel Liang
4. *Efficient Learning of Quantum States Prepared With Few Non-Clifford Gates* *ArXiv, May 2023*
Sabee Grewal, **Vishnu Iyer**, William Kretschmer, Daniel Liang
3. *Improved Stabilizer Estimation via Bell Difference Sampling* *ArXiv, March 2023*
Sabee Grewal, **Vishnu Iyer**, William Kretschmer, Daniel Liang
2. *Low-Stabilizer-Complexity Quantum States are not Pseudorandom* *ITCS, January 2023*
Sabee Grewal, **Vishnu Iyer**, William Kretschmer, Daniel Liang
ITCS 2023 Best Student Paper Award
1. *Junta Distance Approximation* *CCC, July 2021*
Vishnu Iyer, Avishay Tal, Michael Whitmeyer

Note: link to papers and other projects can be found at <http://vishnuiyer.org>

Awards and Honors

UT Austin Graduate Dean's Prestigious Fellowship *March 2023*
NSF Graduate Research Fellowship *March 2023*
ITCS Best Student Paper Award *January 2023*
UT Austin Chair's Strategic Fellowship *April 2021*
UC Berkeley University Medal Semifinalist *February 2020*
UC Berkeley Outstanding GSI Award *March 2019*

¹all authors listed in alphabetical order by last name

Teaching

Analysis of Boolean Functions, UT Austin	Spring 2023
Quantum Information Science, UT Austin	Spring 2022
Algorithms and CS Theory, UT Austin	Fall 2021
Algorithms and CS Theory, UC Berkeley	Spring 2020
Algorithms and CS Theory, UC Berkeley	Fall 2019
Discrete Mathematics and Probability Theory, UC Berkeley	Summer 2019
Algorithms and CS Theory, UC Berkeley	Spring 2019
Discrete Mathematics and Probability Theory, UC Berkeley	Summer 2018

Volunteering and Leadership

Instructor, Texas Prison Education Initiative Taught mathematics to local prison inmates, free of charge.	<i>August 2022 - present</i>
President, Eta Kappa Nu, Mu Chapter President of the Electrical Engineering and Computer Science Honors Society at UC Berkeley.	<i>May 2019 - December 2019</i>
Department Relations, Eta Kappa Nu, Mu Chapter Executive officer in charge of liaising with the department.	<i>May 2018 - May 2019</i>
Co-Founder and Contributor, Undergraduate Theoretical CS Club Organized and held outreach events for theoretical computer science education.	<i>May 2018 - May 2020</i>

Talks

Low-Stabilizer-Complexity Quantum States are not Pseudorandom Innovations in Theoretical Computer Science (ITCS) 2021.	<i>October 2022</i>
Low-Stabilizer-Complexity Quantum States are not Pseudorandom University of Chicago theory lunch.	<i>October 2022</i>
Junta Distance Approximation with Sub-Exponential Queries Conference for Computational Complexity (CCC) 2021.	<i>July 2021</i>