Michelle Ding

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Education

2021– *May 2025*	**The University of Texas at Austin** BS in Computer Science and BS in Mathematics and Business Minor CS Turing Scholars Honors Program
2025– *Present*	**The University of Texas at Austin** PhD in Quantum Computing Advised by Scott Aaronson

Publications

Jul 15, 2024	George Tsoukalas, Jasper Lee, John Jennings, Jimmy Xin, MD, Michael Jennings, Amitayush Thakur, Swarat Chaudhuri. **PutnamBench: Evaluating Neural Theorem-Provers on the Putnam Mathematical Competition** https://arxiv.org/pdf/2407.11214.

Research

May 2024 - *Oct 2024*	Research Assistant for the **Trishul Lab** at UT Austin. Developed benchmarks for testing Neural Theorem-Provers on the Putnam Mathematical Competition. Won **Best Paper** at the ICML 2024 AI for Math Workshop. NeurIPS 2024.
Jun 2024 - *Aug 2024*	Research and Development Intern for **Trend Micro** at Austin, TX. Created structured output logging for internal weekly test automation framework. Relevant tools: Python, MySQL, Docker, Jira, Azure Data Studio.
Nov 2023 - *Feb 2024*	Research Assistant for the **IFML Lab** at UT Austin. Experimented with LLMs, vector databases, and chatbot RAG algorithms to enhance the accuracy and reliability of generative AI models for identifying NeurIPS papers. Manuscript.
May 2023- *Aug 2023*	Research Assistant for the **Spectral guarantees for adversarial streaming PCA.** Eric Price. Spent a summer researching a manuscript for k-spectral guarantees, with the goal to extend the current paper's argument beyond the top k eigenvalues.
Jun 2022 *Dec 2022*	Research Assistant for the **UToPiA Lab** at UT Austin. Isil Dillig. Created a GUI for batch image processing using program synthesis. Relevant tools: Flask, Python, openCV, Amazon Rekognition Software.
Jun 2022 *Jul 2022*	Research Assistant at the **J.J. Pickle Quantum Optics Laboratory** at Austin, TX. Noah Davis. Used class 3B Laser systems to replicate state tomography and Bell's Inequality experiments. Poster.

Teaching

Fall 2024	Undergraduate Grader for **Introduction to Quantum Information Science** at UT Austin. Scott Aaronson. Undergraduate course.
2023	Teaching Assistant for **Quantum Computing Freshman Research Initiative** at UT Austin. Noah Davis. Two-semester course. Led daily in-class activities for a third of the students in the class, hosted office hours, and graded exams, homework, and daily exercises.
Fall 2022	Teaching Assistant for **Discrete Mathematics: Honors** at UT Austin. Isil Dillig. Led discussion sessions, hosted office hours, and graded exams and homework.

Scholarships, Grants & Fellowships

Aug 2025	McKinley Strahan Graduate Fellowship in Computer Science
Aug 2024	Leonard E. Huber Endowed Scholarship - $3,000
Apr 2022	Freshman Research Initiative Summer Fellowship - $2,000
Aug 2021	Ada Mae Janick Marshall Endowed Presidential Scholarship - $3,500
2020	National Office of Mu Alpha Theta Summer Grant - $2,000

Awards & Honors

Mar 2023 - Present	Officer / Core Problem Writer for **UT Programming Contest (UTPC)** at UT Austin. Initiate and implemented written problem editorials which are now publicly available after every contest on Codeforces and Discord. Additionally: write problems for biweekly contests and annual UT Open contest held on the Codeforces platform.
Mar 2023 - Aug 2024	Vice President for the **Mathematics Club** at UT Austin. Obtained for all students access to free MAA weekly journals sponsored by the Math Department, revived the discontinued tradition of hosting Putnam practice sessions on campus, and created and maintained the club's official website. Additionally: recruit speakers and organize events.
2020, 2021	Two-time AIME Qualifier at John Foster Dulles High School.
Mar 2020	1st Place Winner of the American Protégé International Music Talent Competition.

Skills and Certifications

2024	Editor for the upcoming book *Integrals and Sums Fiesta II*.
2023	CPR/AED certified, expires Jun 2025.
2020	US Figure Skating, Silver Level.
2018-2020	Assistant Coach for **Skate Therapy**, Sugar Land, TX.

Last update: August 2025