



Davidson Institute
Fellows Scholarship

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MEQUON TEEN AWARDED \$10,000 SCHOLARSHIP FOR DEVELOPMENT TO IMPROVE STATE PREPARATION IN QUANTUM COMPUTING

Ethan Wang Named A 2022 Davidson Fellows Scholarship Winner

Mequon, Wisc. – The Davidson Fellows Scholarship Program has announced the 2022 scholarship winners. Among the honorees is 18-year-old Ethan Wang of Mequon. Wang won a \$10,000 scholarship for his project, *Efficient Quantum State Preparation for the Cauchy Distribution Based on Piecewise Arithmetic*. He is one of only 21 students across the country to be recognized as a 2022 scholarship winner.

“I am extremely honored to have been named a Davidson Fellow this year,” said Wang. “Becoming a Davidson Fellow not only means being a part of a highly gifted group but also proves that cutting-edge research, such as quantum computing, is accessible to high school students.”

For his project, Wang developed a new quantum algorithm that significantly reduces the computational complexity for quantum computation. Wang’s work has applications in drug discovery, smart manufacturing, and scientific research as well as cybersecurity, allowing for more secure encryption, a bedrock for all internet communication and e-commerce.

Wang will be a first-year student at Harvard University in the fall where he plans to study applied mathematics and electrical engineering. In his free time, Wang enjoys playing basketball or golf, and solving Rubik’s Cubes.

“This year’s class of Davidson Fellows Scholarship recipients continue to find new and innovative ways to pursue their educational and research journeys while striving to solve some of the world’s most vexing problems,” said Bob Davidson, founder of the Davidson Institute. “These students have not just overcome the challenges of doing significant work during a pandemic; our Fellows have embraced the new opportunities that have come from creative, outside-the-box thinking to use technology to expand their networks of mentors and access new sources of information and data, resulting in a very diverse portfolio of projects.”

The 2022 Davidson Fellows will be honored during a reception at the Massachusetts Institute of Technology and with a virtual project presentation ceremony in September 2022.

The Davidson Fellows Scholarship program offers \$50,000, \$25,000 and \$10,000 college scholarships to students 18 or younger, who have completed significant projects that have the potential to benefit society in the fields of science, technology, engineering, mathematics, literature and music. The Davidson Fellows Scholarship has provided more than \$9 million in

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scholarship funds to 407 students since its inception in 2001, and has been named one of the most prestigious undergraduate scholarships by [U.S. News & World Report](#). It is a program of the Davidson Institute, a national nonprofit organization headquartered in Reno, Nev. that supports profoundly gifted youth.

About the Davidson Institute

Founded by Bob Davidson in 1999, the Davidson Institute recognizes, nurtures and supports profoundly intelligent young people, and provides opportunities for them to develop their talents to make a positive difference. The Institute offers support through a number of programs and services, including the Davidson Fellows Scholarship and the [Davidson Academy of Nevada](#). For more information about the 2022 Davidson Fellows, please visit: [DavidsonFellows.org](#).

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High-resolution photos are available at
[DavidsonFellows.org](#)