



For Immediate Release
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Contact: Megan Bedera
775-997-5690
Megan@AmplifyRelations.com

IRVINE TEEN AWARDED \$25,000 SCHOLARSHIP FOR ADVANCING QUANTUM COMPUTER ACCURACY

Alexander Miller Named 2026 Davidson Fellows Scholarship Winner

IRVINE, Calif. — Alexander Miller, 18, of Irvine, has been awarded a \$25,000 Davidson Fellows Scholarship for his science project, *Universal Quantum Error Mitigation via Random Inverse Depolarizing Approximation*. The Davidson Fellows Scholarship is one of the nation's most prestigious honors for students 18 and younger.

"I am honored to be named a Davidson Fellow," Miller said. "This is an incredible opportunity to showcase my work and be part of a community of other young and motivated scientists."

For his project in quantum computing, Miller developed a new method of error mitigation designed to improve the accuracy of calculations performed on present-day quantum computers. Across 100,000 test cases, his method, called Random Inverse Depolarizing Approximation (RIDA), consistently achieved lower error rates than two leading methods. By improving the accuracy of quantum computations, the method could help make quantum computers more practical for applications such as drug development and materials science.

A first-year student at Stanford University, Miller plans to major in computer science and physics. He has been recognized as a Regeneron Science Talent Search Scholar, earned a bronze medal in the USA Physics Olympiad and reached Gold Division in the USA Computing Olympiad.

"The Davidson Fellows continue to demonstrate what young people can accomplish when curiosity, determination and innovation come together," said Bob Davidson, founder of the Davidson Institute. "The 2026 Fellows have pursued challenging questions and developed meaningful work with the potential to make a lasting difference in their fields and communities. We are proud to recognize their extraordinary achievements."

The Davidson Fellows Scholarship program offers 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 \$11.4 million in scholarship funds to 490 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 2026 Davidson Fellows, please visit: [DavidsonFellows.org](#).

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