



Davidson Institute
Fellows Scholarship

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**CAMPBELL TEEN AWARDED \$10,000 SCHOLARSHIP FOR DEVELOPING
SMART BEE COLONY MONITOR TO TACKLE QUEEN FAILURE IN
BEEKEEPING**
Anna Yang Named 2023 Davidson Fellows Scholarship Winner

San Francisco – The Davidson Fellows Scholarship Program has announced the 2023 scholarship winners. Among the honorees is 18-year-old Anna Yang of Campbell. Yang won a \$10,000 scholarship for her project, *Smart Bee Colony Monitor: Internet of Things Device & Fusion Convolutional Neural Network for Queen Assessment*. She is one of only 21 students across the country to be recognized as a 2023 scholarship winner.

“I am so grateful that my research, alongside the work of my class of Fellows, is being highlighted for its incredible positive impact on the world,” said Yang. “I can’t wait to join this inspirational community of Fellows, where we will support and cultivate each other’s creativity.”

Yang’s project was developed from her experience as a beekeeper. Observing that one of the primary causes of colony mortality was queen failure, she developed the Smart Bee Colony Monitor—a novel system using machine learning and a custom IoT (Internet of things) device to monitor queen presence and acceptance in hives. Her research has the potential to help beekeepers prevent future queen failures to preserve the health of the hive.

Yang is a first-year student at Stanford where she plans to explore her diverse academic interests to enact a positive impact on the world. Besides her passion for scientific research, Yang enjoys writing, serving her community, and social activism. In her free time, Yang likes to listen to Lana Del Rey, teach volleyball to young athletes, care for the community beehive she started, and explore art museums.

“We are proud to announce this year’s class of Davidson Fellows Scholarship recipients who have completed significant projects with the potential to benefit society in the fields of science, technology, engineering, mathematics, literature, and music,” said Bob Davidson, founder of the Davidson Institute. “The innovations and new thinking added by each class of Fellows serve as an inspiration for future scholars to apply novel technologies and groundbreaking ideas to solve the world’s most difficult problems.”

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The 2023 Davidson Fellows will be honored during a reception at the Smithsonian National Museum of the American Indian in Washington, D.C. and with a virtual project presentation ceremony in September 2023.

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 \$9.4 million in scholarship funds to 428 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 2023 Davidson Fellows, please visit: [DavidsonFellows.org](#).

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