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LOS ALTOS TEEN AWARDED \$25,000 FOR BREAST CANCER RESEARCH

Manan Shah to be Named a 2017 Davidson Fellow

Reno, Nev. – The Davidson Institute of Talent Development has announced the 2017 Davidson Fellows. Among the honorees is 18-year-old Manan Shah of Los Altos. Shah won a \$25,000 Davidson Fellows Scholarship for his project, *Deep Learning Assessment of Tumor Proliferation in Histopathological Images for Categorical and Molecular Breast Cancer Severity Diagnosis*. He is one of only 20 students across the country to receive this honor.

“Being named a Davidson Fellow is a tremendous honor for me,” said Shah. “It both validates my work and will support my continued pursuits in college and beyond.”

Breast cancer is the most common cancer in women worldwide, and it is universally accepted that tumor growth speed is an important biomarker representative of patient prognosis. Shah developed the first integrated pipeline for the data-driven categorical and molecular prediction of breast cancer severity. His pipeline is the first to provide low-cost and objective breast cancer prognoses on par with pathologist performance; with additional biological and clinical verification, he anticipates that this data-driven and prediction-based integrative approach will enable the rapid classification and specific biomarker identification of other cancerous diseases.

At school, Shah has served as co-president of the Programming Club and was captain of the school’s Lincoln Douglas debate team. Aside from his scientific interests, Shah is an avid proponent of nuclear nonproliferation, and recently gave a presentation at the Critical Issues Forum in Nagasaki, Japan.

Shah will attend Stanford University in the fall. He plans to study computer science and mathematics.

“We are thrilled to recognize the 2017 Davidson Fellows not only for their incredible projects, but also for the journey they forged to reach this point,” said Bob Davidson, founder of the Davidson Institute. “Every year I am amazed by the depth of the Fellows’ accomplishments. Through encouragement and recognition, the Davidson Institute for Talent Development anticipates that gifted students like these will be among the pioneers who will solve the world’s most vexing problems.”

The 2017 Davidson Fellows will be honored at a reception in Washington, D.C., on September 27.

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 \$7.1 million in scholarship funds to more than 300 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 for Talent Development, 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 for Talent Development 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 2017 Davidson Fellows, please visit www.DavidsonGifted.org/Fellows-Scholarship.

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High-resolution photos are available at www.DavidsonGifted.org.