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## **LAFAYETTE TEEN AWARDED \$25,000 FOR GRAPH GENERATING ALGORITHM**

### **Arjun Ramani to be Named a 2017 Davidson Fellow**

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Reno, Nev. – The Davidson Institute of Talent Development has announced the 2017 Davidson Fellows. Among the honorees is 18-year-old Arjun Ramani of West Lafayette, IN. Ramani won a \$25,000 Davidson Fellows Scholarship for his project, *Fast Sampling of Stochastic Kronecker Graphs*. He is one of only 20 students across the country to receive this honor.

“I am extremely honored to be named a 2017 Davidson Fellow,” said Ramani. “To me, Davidson Fellows utilize their knowledge in ways that have not been prescribed to them by someone else. Instead, they think deeply and innovatively to advance their respective fields.”

Ramani developed an algorithm that significantly reduces the amount of time needed to generate certain random network models in order to analyze sets of data. In mathematics, a graph, or network, represents the connections between various objects. To find patterns in real networks, researchers usually generate random networks as a basis of comparison to the real world data. With Ramani’s algorithm, the process of network analysis is sped up significantly.

Ramani has been involved in several clubs and academic activities, including sitting as president of his school’s Mu Alpha Theta chapter and qualifying for the American Invitational Mathematics Exam every year since he was in seventh grade. He also plays the violin, performing in his school orchestra and as a member of the Wabash Valley Youth Symphony.

Ramani will attend Stanford University in the fall. He plans to major in a combination of mathematics, computer science and economics.

“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](http://www.DavidsonGifted.org/Fellows-Scholarship).

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*High-resolution photos are available at [www.DavidsonGifted.org](http://www.DavidsonGifted.org).*