



**Davidson Fellow Laureate
Jerry Guo**

(\$50,000 Scholarship Recipient)



Personal Info

Jerry Guo

Age: 16

Greer, SC

School, College and Career Plans

Jerry is a senior at Riverside High School and plans to attend a prestigious research university to major in biology or business, or possibly both. Jerry's long-term educational goals include achieving an MBA and Harvard's dual Ph.D./M.D. program. He would like to pursue medical research and start his own research company.

Davidson Fellows Submission (*Technology*)

In his project titled "Development of an Advanced Bayesian Statistical Spam Filter," Jerry Guo created a program to reduce unwanted e-mail or spam. Tackling one of today's biggest problems in the growing e-world, Jerry took a novel approach to spam filtering using an advanced Bayesian statistical method to develop a more robust, adaptive and accurate filter. Jerry's anti-spam program is more than 99 percent effective, far exceeding current systems which are not only inaccurate, but also delete legitimate e-mail in the process.

Biography

Despite moving to new communities and schools several times, Jerry is first in his class of 350 students and was the only sophomore allowed to take Advanced Placement classes, including Statistics and Computer Science, which partly motivated his research. He also independently studied many science courses, including psychology, environmental science, and economics.

Not only is Jerry president of the South Carolina Jr. Academy of Science, he earned perfect exam scores on his SAT II in molecular biology, math, and writing. Having played the violin for 13 years, Jerry is the concertmaster of Canton Youth Symphony, Canton Youth Chamber Orchestra, and the Carolina Youth Chamber Orchestra. He is also the founder and principal violin of the Canton City Quartet and the associate principal first violin of the Carolina Youth Symphony. In addition, Jerry is an intern at the North Carolina Symphony.

Jerry has played on two Conference Championship teams in varsity tennis and basketball. As an individual, Jerry placed in the Top Ten at the Chess State Championship. He also played a supporting role in the school play *Tom Sawyer*.

Please see next page.

The Davidson Institute for Talent Development

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(Cont.)

Honors/Awards

- 2004 Davidson Fellow Laureate
- 2004 Intel Excellence in Computing Award
- 2004 Discover Card National Tribute Award Winner in Science, Business, & Technology
- 2004 SCJAS Convention (state science fair), First Place Overall
- 2003 Intel International Science Fair Computer Science and AI Award, Third Place
- 2003 SC Region 1A Science Fair, Senior Division, First Place Overall
- 2003 Siemens-Westinghouse Competition Regional Finalist and Team Leader
- 2003 State ENERGY Competition Champion
- 2003 State Debate Champion
- 2003 All-State Speech Team
- 2003 Degree of Distinction, National Forensic League

Community Activities

Jerry founded ScienceHelp, the only nonprofit organization that helps kids to complete a science project and encourages disadvantaged youths to pursue a career in the sciences.

Additionally, Jerry enjoys volunteering as an associate editor of ACM Crossroads (U.S.'s #1 student computing journal), the lead statistical analyst for Unite for Sight, an assistant in a hospital's gastrointestinal lab, and with Meals-on-Wheels, Key Club, National Honor Society, Adopt-a-Highway, and National Healthcare Center.

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