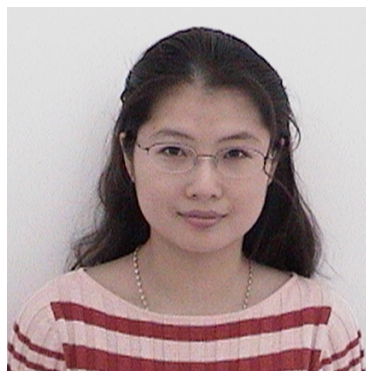




**Davidson Fellow  
Qilei Hang**

(\$25,000 Scholarship Recipient)



**Personal Info**

Qilei Hang  
Age: 17  
Cumberland, Md.

**School, College and Career Plans**

Qilei will graduate from Allegany High School in June 2004. She plans to attend college beginning in the fall of 2004. Qilei hopes to pursue a career as a physician or university professor.

**Davidson Fellows Submission** (*Science*)

In her project titled "Optimization of the Location for Two Drawpoint Holes in Conical Stockpiles," Qilei translated her knowledge of numerical modeling, analytical solutions and experimental modeling into a civil engineering project optimizing the design of material stockpiles used in the mining industry. Qilei's approach is a more effective method for mining operators to locate conical stockpiles and determine draw points. Since this new method no longer requires mining workers to operate machinery on top of the stockpile, Qilei's work will help minimize on-site safety risks.

**Biography**

Qilei's family moved frequently during her childhood, and she has lived throughout the United States and in China. She attended a performing arts middle school, but took an interest in science and engineering in high school. Her research has been recognized by the Society for Mining, Metallurgy, and Exploration for her contributions to mining engineering.

She is on the high school Math Team and Varsity Debate Team, and also participates in the French Club and American Field Service.

Qilei is an accomplished cellist and is the principal cellist in the Allegany Senior Orchestra. In her free time, she enjoys playing ultimate Frisbee, chess, ping-pong and billiards. Qilei is also a tennis, soccer and badminton enthusiast.

*Please see next page.*



## **Davidson Fellow**

**Qilei Hang**

*(Cont.)*

### **Honors/Awards**

- 2003 Davidson Fellow
- 2003 Tri-State Mathematics Competition, Second Place
- 2002 Engineering, Intel International Science and Engineering Fair, First Place
- 2002 National Junior Science and Humanities Symposium, First Place
- 2002 Western Maryland Science Expo, Grand Champion Award
- 2002 Young Edison Award
- 2002 Herbert Hoover Young Engineer Award
- 2002 Maryland Junior Science and Humanities Symposium, First Place

### **Community Activities**

Qilei is a member of the Allegany County Community Orchestra and volunteers at the Cumberland History House.

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