



Davidson Fellow
Anna-Katrina Shedletsky

(\$10,000 Scholarship Recipient)



Personal Info

Anna-Katrina Shedletsky

Age: 17

Brewster, NY

School, College and Career Plans

Anna-Katrina recently graduated as valedictorian from Brewster High School. While in high school, she took courses from SUNY Albany, Syracuse University, Western Connecticut State University, and the University of Alabama at Huntsville. She will attend Stanford University in the fall.

Davidson Fellows Submission (Science)

In her project titled "Disease Propagation Through Connective Paths," Anna-Katrina Shedletsky created a computer model to better understand how diseases spread among different populations. Unlike previous strategies of quarantining and vaccinating all who are ill, Anna-Katrina's strategy takes into consideration how individual populations are structured and uses this knowledge to determine whether or not the population disbursement of an area is more or less likely to inhibit or facilitate the spread of disease. Her work is helping our country become better prepared for potential bio-terrorist attacks.

Biography

In high school, Anna-Katrina took thirteen Advanced Placement classes, ranging from Calculus BC to Art. The diversity in her schedule allowed her to connect the disciplines of mathematics, computer science, biology, and sociology, which are central to her research. While the AP class Foundations of Research class aided Anna-Katrina in her research project, she attributes her project's focus to a short discussion over dinner with some family friends about epidemics on cruise ships.

Anna-Katrina served as editor of Brewster High School's literary magazine, Ursus, for two years. The 2003 issue was named "superior in the state of New York" by the National Council of Teachers of English. Anna-Katrina has played the violin for nine years and taught herself to play the viola, cello, and flute.

She has traveled to Japan, China, France, England, Spain, and Italy.

She enjoys drawing with charcoal and pastels and is currently writing a novel set in pre-Arthurian England. For the past three summers Anna-Katrina and her mother have run their own eBay business, Vintage Nestfeathers.

Please see next page.



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(Cont.)

Honors/Awards

- 2004 Davidson Fellow
- 2004 Intel ISEF, Medicine and Health, Second Place
- 2004 Intel ISEF, US Department of Homeland Security, Scholarship Winner
- 2004 NY Upstate JSHS, First Overall
- 2004 CT State Fair, Senior Life Sciences, First Place
- 2004 CT State Fair, Computer Science, First Place
- 2004 USA Today All-American Academic Team Member
- 2004 IBM T. J. Watson Scholarship Recipient
- 2004 Brewster Board of Education, Seven-Year Scholar Scholarship
- 2004 National JSHS, Mathematics and Computer Science, First Award
- 2004 Young Epidemiology Scholars Competition, National Finals, Third Award
- 2004 Intel Science Talent Search Semi-Finalist
- 2003 AP Scholar with Distinction
- 2003 National Merit Commended Scholar
- 2003 Siemens Westinghouse Competition Mid-Atlantic Region Finalist
- 2003 Westchester Council of English Educators, 11-12 Short Story, First Place
- Published in the September Issue of TeenInk, 2003
- Published in the Fall Poetry Supplement of TeenInk, 2003

Community Activities

During her 11 years as a Girl Scout, Anna-Katrina earned many awards, including over 40 Senior Scout badges and the Silver Award. She was able to use her math skills for 3 years as troop Treasurer and to plan and fundraise a trip to Savannah, Georgia.

Anna-Katrina also earned the Community Service and Community Service to Council Bars.

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The Davidson Institute for Talent Development

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