

## ABOUT GEORGE HEART



**George Hart** is a sculptor and applied mathematician who demonstrates how mathematics is cool and creative in ways you might not have expected. Whether he is slicing a bagel into two linked halves or leading hundreds of participants in the group assembly of an intricate geometric sculpture, he always finds original ways to share the beauty of mathematical thinking. Hart co-founded the Museum of Mathematics in New York City and developed its initial set of hands-on exhibits. He also makes videos that show the fun and creative sides of mathematics. See <http://georgehart.com> for examples of his work.

[math.arizona.edu/outreach/Bartlett\\_lecture](http://math.arizona.edu/outreach/Bartlett_lecture)

## ABOUT DANIEL BARTLETT



Daniel Wezelman Bartlett was born November 8, 1980. He died of sudden cardiac arrest on August 8, 2006, just before commencing his fourth year of graduate school in mathematics at the University of Arizona. He was a wonderful and loving son to his parents, a close companion to his younger sister, and fierce friend for many.

Daniel was born with physical impairments, but that didn't stop him from enjoying life. He played piano, trumpet, and shofar; he was a chess player; and he was an academic athlete, winning scholarships and contests for Academic Decathlon, economics, and the annual Shakespeare monologue competition. (He loved portraying Iago). He was a proud leader in his B'rith Youth Organization.

Daniel's academic interests were not restricted to mathematics. As a junior in high school he was selected for the Telluride Association Summer Program at Cornell, an intense program in the humanities.

He graduated from University High School in Tucson both as a Presidential Scholar and a National Merit Scholarship winner.

Daniel loved mathematics and excelled at it all his life. He went to Harvard for his undergraduate work, concentrating in mathematics, where his advisor was Barry Mazur. While an undergraduate, he worked one summer at the University of Arizona Astronomy Department and another summer at the National Security Administration, where he co-authored a classified paper. He received his BA degree in 2003.

While studying for his PhD at the University of Arizona, Daniel had narrowed his research interest to the field of algebraic geometry, and at the time of his death he was beginning the work he hoped to use for his doctoral dissertation.

### DANIEL BARTLETT MEMORIAL FUND

Generous contributions by Daniel's family and friends have made it possible to establish this fund, whose purposes are to memorialize Daniel Bartlett, to foster awareness and appreciation of mathematics of the highest level in the Tucson community, and to support graduate education in Mathematics at the University of Arizona. The inaugural Daniel Bartlett Memorial Lecture was given in 2008 by Barry Mazur, Gerhard Gade University Professor, Harvard University.



## ABOUT THE LECTURE

# MAKING MATH VISIBLE

Our cultural world is filled with inspiring artifacts that highlight the beauty of art, architecture, and literary thinking, but what is there that analogously emphasizes the beauty of mathematical thinking? Can we create inspiring public art works and cultural activities that will lead to a wider appreciation for the wonders of mathematics? What should be our analog to art galleries, public monuments, and the grand reading rooms of the great libraries? This highly illustrated presentation will explore George Hart's answers to these questions in terms of beautiful geometric sculpture and hands-on mathematical construction activities. **School teachers, middle and highschool students are especially encouraged to attend.**

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Members of the department create, communicate, and apply mathematics of the highest caliber through activities such as internationally recognized research and graduate education, award winning undergraduate programs, and extensive outreach to local schools.

The department's faculty includes two Regents' Professors, three University Distinguished Professors, and numerous recipients of national and international awards. Over the last five years, a large percentage of the faculty has been awarded grants and contracts from external funding agencies, with total awards averaging about \$5 million per year.

The department offers PhD, MS, and MA programs in Mathematics and Mathematics Education, and it provides major contributions to the Graduate Interdisciplinary Degree Programs in Applied Mathematics and Statistics. It also offers several unique post-doctoral opportunities for recent PhDs planning careers in research and education.

At the undergraduate level, the department provides more than 70,000 credit hours of instruction per year and offers its more than 600 majors unparalleled opportunities for research, tutoring experiences, and internships. The undergraduate, graduate, and GDP programs have recently been recognized with two 5-year, \$3.5 million VIGRE training grants from the National Science Foundation, a distinction very few programs in the country can match.

The department has a long and excellent tradition of outreach to schools in Tucson, ranging from programs supporting high school teachers to a research center focusing on improving the mathematics education of low-income Latino students.

Through the breadth and quality of its programs, the Department of Mathematics makes major contributions to the mission of the University of Arizona and to the quality of life in Tucson and beyond.

A handwritten signature in blue ink that reads 'Doug Ulmer'.

**Doug Ulmer**

Professor and Head  
The University of Arizona Department of Mathematics

## MATHEMATICS

# MAKING MATH VISIBLE



**George Hart**

## 2018 DANIEL BARTLETT MEMORIAL LECTURE

Tuesday, March 27, 2018  
6:30pm – UA Campus  
Gallagher Theater  
Student Union Memorial Center  
1303 E. University Blvd.

