

**American Mathematical Society Award  
for Exemplary Program or Achievement  
2017**

**Mathematics Department**



# Illinois Geometry Lab (IGL)



- ❖ The IGL was founded by Jayadev Athreya, who has since moved to the University of Washington (where he has opened a similar lab); currently the director is Jeremy Tyson
- ❖ The IGL offers undergraduates the opportunity to work on semester-long projects under the guidance of faculty. The students learn what it's like to work on a team and struggle with open-ended problems
- ❖ The IGL's second purpose is to showcase mathematics to the general public and to K–12 students. The lab conducts about twenty-five public outreach activities each year, which have IGL students toting the lab's 3-D printer to places like farmers' markets and schools



# Merit Program for Emerging Scholars



- ❖ Merit-style teaching consists of using a highly trained facilitator-instructor to stimulate student-student interactions by providing challenging problem sets or other activities for the students
- ❖ The Merit program is based on the models of Uri Treisman
- ❖ The Merit Program is a challenging program for a select group of undergraduates
- ❖ The program targets students with high potential who are members of groups, such as ethnic minorities and women, who tend to be underrepresented in the areas of science, mathematics and engineering. The program also targets students from small high schools



# Actuarial Science Program

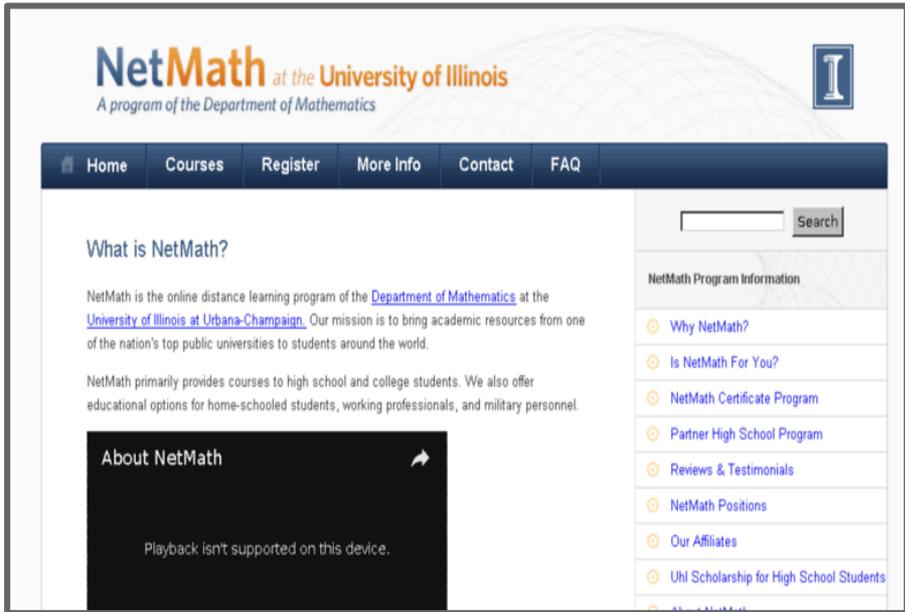
- ❖ The University of Illinois Actuarial Science Program, one of the largest programs in the U.S., is housed in the Department of Mathematics
- ❖ The program prepares students for careers as actuaries and enterprise risk analysts
- ❖ There are almost 400 undergraduate enroll in the program
- ❖ The Illinois Actuarial Science Program also works closely with the Department of Statistics to offer training on statistics and data analytics
- ❖ The Illinois Actuarial Science Program is a founding member of the Annual Midwest Actuarial Student Conference (MASC), which provides opportunities to actuarial students for networking with peers and employers





# NetMath at the University of Illinois

- ❖ NetMath is the online distance learning program of the Department of Mathematics
- ❖ Mission is to bring academic resources from one of the nation's top public universities to students around the world
- ❖ NetMath primarily provides courses to high school and college students
- ❖ NetMath also offers educational options for home-schooled students, working professionals, and military personnel



The screenshot shows the NetMath website interface. At the top, the logo reads "NetMath at the University of Illinois" with the tagline "A program of the Department of Mathematics" and the University of Illinois "I" logo. A navigation menu includes "Home", "Courses", "Register", "More Info", "Contact", and "FAQ". A search bar is located on the right. The main content area features a section titled "What is NetMath?" with a paragraph explaining the program's mission and a video player titled "About NetMath" that displays the message "Playback isn't supported on this device." A sidebar on the right, titled "NetMath Program Information", contains a list of links: "Why NetMath?", "Is NetMath For You?", "NetMath Certificate Program", "Partner High School Program", "Reviews & Testimonials", "NetMath Positions", "Our Affiliates", and "U/I Scholarship for High School Students".



# PI4-Program for Interdisciplinary & Industrial Internships at Illinois



- ❖ PI4 is an NSF-funded award from the Division of Mathematical Sciences
- ❖ Provides training and internships for PhD students
- ❖ The program includes a “Summer Computational Boot Camp”
- ❖ The number of summer internships has grown from six in 2013 to a total of thirty-one in 2016