MIT PRIMES is a free, year-long after-school research program for high school students, offering projects in mathematics, computer science, and computational biology. This is the only program in the United States that gives students an opportunity to pursue serious research in a university setting at a natural pace, over the period of one year, under the guidance of academic mentors.

- From 2011-2023, 542 research projects completed by PRIMES students;
- All projects presented at thirteen annual PRIMES conferences;
- 25 students received Outstanding Presentation awards at MAA Undergraduate Student Poster sessions of Joint Mathematics Meetings;
- One 1st, three 2nd, three 3rd, and four 4th Grand Awards at Regeneron/Intel ISEF;
- 1st Prize ($100K scholarship), four 2nd Prizes ($50K), two 4th Prizes ($30K), two 5th Prizes ($20K), 2 national finalists ($25K), 28 regional finalists, and 57 semifinalists at Siemens Competition;
- Two 1st Places ($150K/$250K), three 2nd ($75K/$175K), three 3rd ($35K/$150K), four 4th ($40K/$100K), one 5th ($90K), one 6th ($80K), three 7th ($70K), one 9th Place ($50K), three 10th ($20K/$40K), 26 national finalists, and 104 national semifinalists/scholars at Intel/Regeneron STS;
- 5 Davidson Fellow Laureates ($50K), 14 Davidson fellows ($25K/10K), and 9 hon. mentions;
- 37 USA and Global finalists/medalists and 26 USA semifinalists at Yau Science Award.
Currently 52 local PRIMES students are working on individual and group research projects and studying in reading groups in mathematics, computer science, and computational biology. PRIMES-USA, a distance-mentoring math research section for out-of-state students, has 52 students. We have established partnerships with researchers from Broad Institute, Brandeis University, Clemson University, CUNY – City College, Harvard, SJSU, SHSU, Tufts, University of California Irvine, University of Illinois at Chicago, University of Florida, University of Oregon, UMass Lowell, University of Pennsylvania, and University of Toronto, which provide projects for several PRIMES students. PRIMES Math Circle and CS Circle, enrichment sections for students with disadvantaged backgrounds from local high schools, have 36 students. The total number of students is 140, including 59 girls.

PRIMES Circle students making an expository presentation at MIT, May 2017

SPONSORS

PRIMES acknowledges generous support from MIT Mathematics Department, MIT EECS Department, National Science Foundation, Quanta Computer, MathWorks, EHA Foundation, Webster Foundation, Hamilton Foundation, Rosenbaum Foundation, and individual donors. PRIMES is currently seeking funding for the next annual cycle from sources both within and outside MIT. Please contact PRIMES Program Director Dr. Slava Gerovitch at <primes@math.mit.edu>.

PROGRAM COORDINATORS

Prof. Pavel Etingof, Mathematics
Prof. Srini Devadas, Computer Science
Dr. Slava Gerovitch, Director