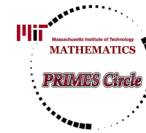




PRIMES



MIT PROGRAM FOR RESEARCH IN MATHEMATICS, ENGINEERING, AND SCIENCE
FOR HIGH SCHOOL STUDENTS (WEB.MIT.EDU/PRIMES)



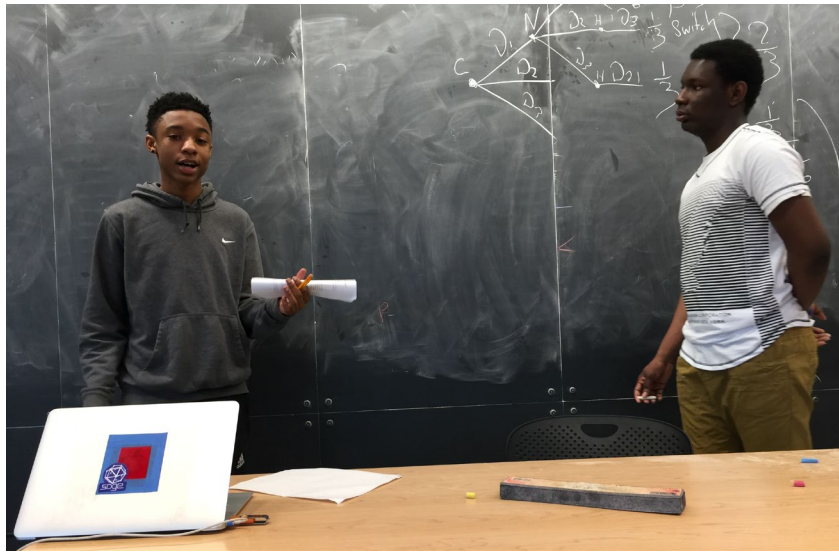
PRIMES students at the Eighth Annual PRIMES conference at MIT, May 2018

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 2011-2025, **659 research projects** completed by PRIMES students;
- All projects presented at **fifteen annual PRIMES conferences**;
- **487 research papers** posted online & **102 published** in *Algebraic Comb.*, *Ann. Comb.*, *Comptes Rendus Math.*, *Commun. Algebra*, *Represent. Theory*, *J. Algebra*, *J. Algebraic Comb.*, *J. Comb.*, *J. Commut. Algebra*, *J. Graph Algorithms Appl.*, *J. Integer Seq.*, *Electron. J. Comb.*, *Eur. J. Comb.*, *Indag. Math.*, *Integers*, *Int. J. Game Theory*, *Discrete Appl. Math.*, *Discrete Math.*, *New York J. Math.*, *Trans. Am. Math. Soc.*, *Bull. London Math. Soc.*, *College Math. J.*, *IEEE Trans. Inf. Theory*, *IMA J. Appl. Math.*, *Topol. Appl.*, *Involve*, *Math Horizons*, *Polit. Analysis*, *Bioinformatics*, *Cell Rep.*, *J. Struct. Biol.*, *Nature Sci Rep*, *Proc Royal Soc A*, *Lett Biomath*, *Math Biosci*, *Phys Rev E*, *Phys Rev Research*, *PLoS Comp Biol*;
- **26 students** received **Outstanding Presentation awards** at AMS/PME/MAA Undergraduate Student Poster sessions of Joint Mathematics Meetings/MathFest;
- **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), **four 3rd** (\$35K/\$150K), **five 4th** (\$40K/\$100K), **two 5th** (\$90K), **one 6th** (\$80K), **three 7th** (\$70K), **two 9th Place** (\$50K), **three 10th** (\$20K/\$40K), **33 national finalists**, and **122 national semifinalists/scholars** at Intel/Regeneron STS;
- **5 Davidson Fellow Laureates** (\$50K), **14 Davidson fellows** (\$25K/10K), and **9 hon. mentions**;
- **68 USA/Global finalists/medalists** and **35 semifinalists/hon. mentions** at Yau Science Award.

PRIMES IN 2026

Currently 81 nationally selected PRIMES students are working on individual and group research projects. The Junior Math section has 52 students; the Sophomore Math section has 21; eight students do research in the Computational Biology section. We have established partnerships with researchers from Harvard, Princeton, Stanford, Yale, CCNY-CUNY, Northwestern University, Indiana University Bloomington, University of California Irvine, SJSU, University of Illinois at Chicago, University of Texas Dallas, Clemson University, Wellesley College, Harvard Medical School, and Brigham and Women's Hospital, who provide projects for several PRIMES students. PRIMES Circle, an enrichment section for promising local students who demonstrate resilience, resourcefulness, and initiative in overcoming barriers to learning, has 34 students. The total number of students is 115.



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, research advisor



Dr. Slava Gerovitch, director



Dr. Tanya Khovanova, head mentor