

MIT Italy Program in Liceo Scientifico Francesco Severi

By Hannah Sparkman and Nikhil Sud

Ciao!

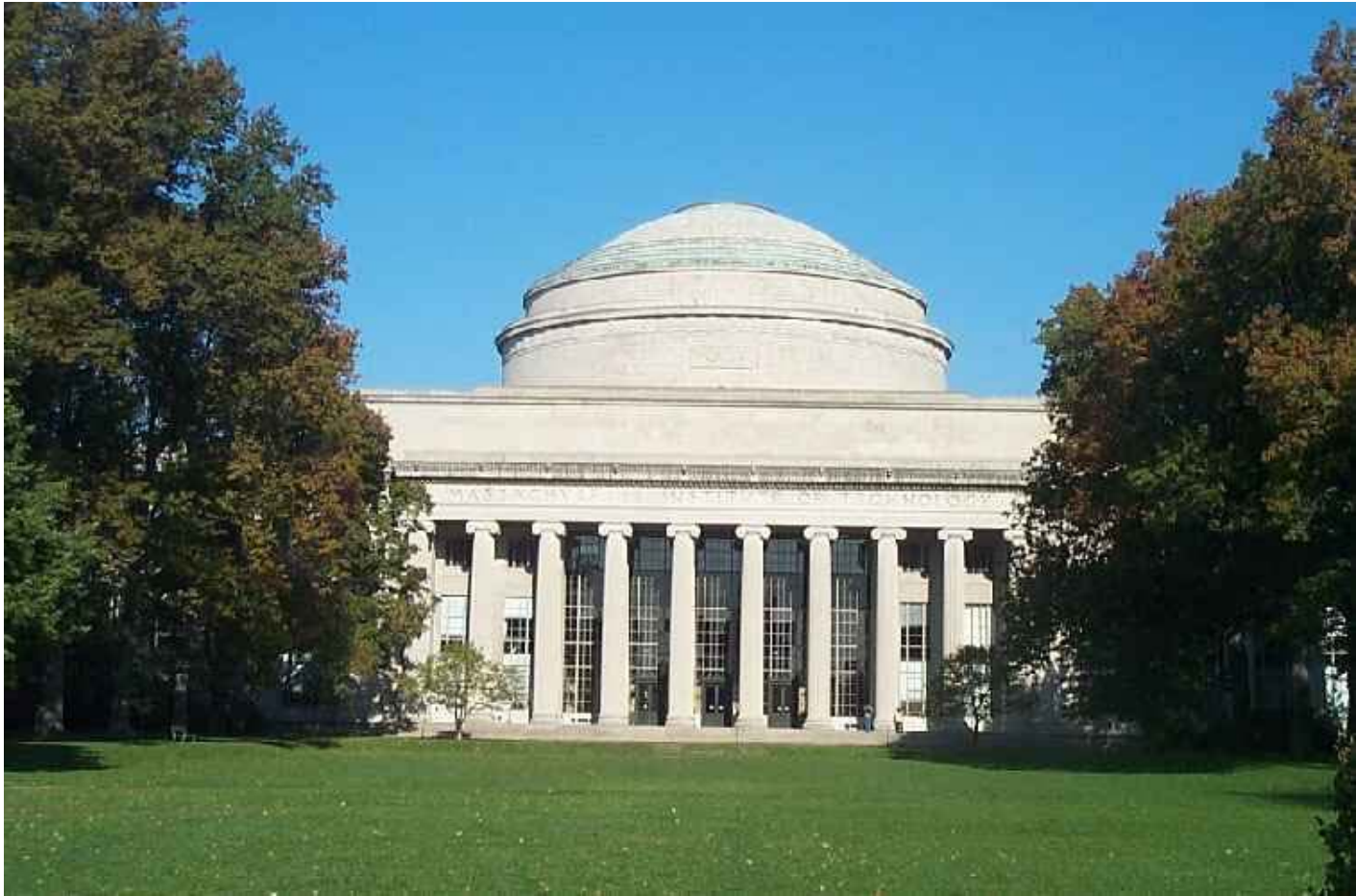
Hannah Sparkman
Year: Sophomore (2)
Hometown: NYC
Major: Mathematics

Nikhil Sud
Year: Junior (3)
Hometown: Bangalore, India
Major: Management Science

Massachusetts Institute of Technology (MIT)

Quick Facts

- Founded in 1861
- Located in Cambridge, Massachusetts
- 4,232 undergraduates/6,152 graduates/1,009 faculty members
- 75 Nobel Laureates



MIT

- Mission: to advance knowledge and educate students in science, technology, and other areas of scholarship that will best serve the nation and the world in the 21st century.
- Main purpose: practical teaching/research
- Independent
- Coeducational
- Privately endowed

More info: web.mit.edu

MISTI

- MIT International Science and Technology Initiatives
- Connects MIT students and faculty with research and innovation around the world
- Working closely with a network of premier corporations, universities and research institutes
- Matches over 400 MIT students with internships and research abroad each year.
- Programs: MIT-China, MIT-France, MIT-Germany, MIT-India, MIT-Israel, MIT-Italy, MIT-Japan, MIT-Mexico, MIT-Spain, MISTI-Africa

MISTI-Italy

- Creative partnerships and collaborations between members of the MIT community and their counterparts in Italy.
- Internships, workshops, classes, faculty collaborations, and student fellowships bring more of MIT to Italy and more of Italy to MIT to enrich both communities.
- Draws from an extensive network of companies, research institutes, and universities and aims to be as inventive and resourceful as the country it represents.
- Through the MIT-Italy Program, MIT students have
 - researched DNA in Sardinia
 - worked at a top robotics lab in Genoa
 - learned about technology and policies at ENEL
 - studied at the National Institute of Nuclear Physics in Frascati

Highlights for High Schools 2010

- Severi is one of 8 Italian schools selected
- 26 MIT students selected from 50+ applicants
- Aim is to teach physics and mathematics using MIT's innovative teaching methods and hands-on approach
- OpenCourseWare lessons will be used
- Three weeks (Jan 11 to Jan 30)

MIT OpenCourseWare (OCW)

- Makes teaching materials used in MIT undergraduate and graduate courses available on the web, free of charge, to any user anywhere in the world.
- It is not a degree-granting or credit-bearing initiative, but a large-scale, web-based publication of MIT course materials.
- Educators are encouraged to use materials for curriculum development, and self-learners may draw on materials for self-study or supplementary use, including learning resources specially developed for high school students.
- OCW is online at <http://www.ocw.mit.edu>



© Eric Schriedl



TEAL

- Technology Enabled Active Learning
- At MIT, both required physics classes are taught in TEAL (classical mechanics and electromagnetism)
- <http://www.nytimes.com/2009/01/13/us/13physics.html>



MIT Culture

- Creativity, collaboration, teamwork
- Innovation, testing new limits
- Problem-solving
- Thought process







MIT Hacks

- Interesting and creative work at a high intensity level
- Challenging for the perpetrators and amusing to the MIT
- <http://hacks.mit.edu/>

