

# Anjali Nambrath

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## EDUCATION

**Massachusetts Institute of Technology** 2017 - 2021

Candidate for B.S. in Physics. Cumulative GPA: 5.0 / 5.0

Select coursework: Quantum Physics II, Statistical Mechanics I, Quantum Computation, Relativity, Differential Equations, French IV.

**High Technology High School** 2013 - 2017

Cumulative GPA: 4.0 / 4.0

Select coursework: Linear Algebra, AP Statistics, Computer Science and Software Engineering, Engineering Design and Development.

## RESEARCH EXPERIENCE

**Hadronic Physics Group @ MIT Laboratory for Nuclear Science**

*Undergraduate researcher under Prof. Hen* Nov. 2017 - present

- Developed a laser calibration system to ensure measurement stability for the Backward Angle Neutron Detector (BAND)
- Devised a procedure for characterizing the efficiency of BAND scintillator bars and photomultipliers
- Constructed, assembled, and installed BAND at Thomas Jefferson National Accelerator Facility in Newport News, VA

**MITRE Quantum Information Science Group**

*Research intern* Feb. 2017 - June 2017

- Verified operation of InGaAs detectors and developed electronics and detector configuration to be able to measure entanglement from Bell pairs.
- Laid initial groundwork for development of optical quantum computing systems.
- Performed data analysis with Python and Octave.

## ACTIVITIES

**HackMIT Organizing Team**

*Organizer, Marketing Director* Sept. 2017 - present

- Organized MIT's premier hackathon (1200+ attendees)
- Managed marketing team and developed event theme and brand
- Designed assets like promotional graphics, signange, stickers, etc.

**MIT Society of Physics Students**

*Outreach Chair* May 2018 - present

Organizing joint conference between Harvard and MIT undergrads.

**MIT Undergraduate Research Journal**

*Research editor, layout editor* Sept. 2017 - May 2018

Reviewed and vetted submitted abstracts and reports. Created layout for journal before publication, including articles, graphics, and ads.

## SKILLS

### Programming skills

Python - proficient

LaTeX - proficient

C++ - intermediate

ROOT - intermediate

Arduino C - intermediate

R - intermediate

### Languages

English - fluent

French - proficient

Malayalam - proficient

Italian - intermediate

German - intermediate

### Graphic Design

Adobe Photoshop and

Illustrator - proficient

Adobe InDesign and

Lightroom - intermediate

## ACHIEVEMENTS

2017

Finalist: Moody's Mega Math Challenge

State finalist: New Jersey VEX Robotics

2016

Team USA alternate for International Linguistics Olympiad in India

Scholar at the New Jersey Governor's School in the Sciences