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

High Technology High School (Lincroft, NJ) *2013 - 2017*
Cumulative GPA: 4.0 / 4.0

RESEARCH EXPERIENCE

Thomas Jefferson National Accelerator Laboratory
Summer research intern *June 2018 - Aug. 2018*
- Constructed scintillator bar and photomultiplier modules for the Backward Angle Neutron Detector (BAND).
- Assembled and installed BAND in Jefferson Lab Hall B.
- Set up data analysis systems for BAND.

Hadronic Physics Group @ MIT Laboratory for Nuclear Science
Undergraduate researcher under Prof. Hen *Nov. 2017 - present*
- Writing a simulation for expected results from the upcoming Large Acceptance Detector experiment.
- Developed a laser calibration system to ensure measurement stability for BAND.
- Devised a procedure for characterizing the efficiency of BAND's scintillator bars and photomultipliers.

MITRE Quantum Information Science Group
Research intern *Feb. 2017 - June 2017*
- Laid initial groundwork for optical quantum computing systems.
- Verified operation of InGaAs detectors and developed electronics configuration to be able to measure entanglement from Bell pairs.
- Performed data analysis with Python and Octave.

LEADERSHIP EXPERIENCE

HackMIT Organizing Team
Organizer, Marketing Director *Sept. 2017 - present*
- Organized MIT's largest hackathon (1300+ attendees).
- Successfully managed design team and developed event brand.
- Designed branding assets like signage, social media, and stickers.

MIT Society of Physics Students
Outreach Chair *May 2018 - present*
Organizing joint conference between Harvard and MIT undergrads. and interfacing between department administration and students.

SELECTED COURSEWORK

Quantum Physics II
Statistical Mechanics I
Quantum Computation
Topics in Biophysics
Differential Equations
French IV

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*

ACHIEVEMENTS

2018

Presenter: APS Division of Nuclear Physics yearly meeting poster session

2017

Finalist: Moody's Mega Math Challenge

State finalist: New Jersey VEX Robotics

2016

Team USA alternate for International Linguistics Olympiad in India