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EDUCATION

Massachusetts Institute of Technology (MIT)　　　　　　　　　　　**Cambridge, MA**
Candidate for B.S., Computer Science & Mathematics　　　　　　　　　　June 2013
GPA: 4.5/5.0 · Minors in Economics & Management Science

Plano Senior High School　　　　　　　　　　　　　　　　　　　**Plano, TX**
GPA: 4.54/4.0 · Rank 3/1402　　　　　　　　　　　　　　　　　　　June 2009

RESEARCH EXPERIENCE

Laboratory for Nuclear Science, Department of Physics, MIT　　　　　**Cambridge, MA**
Undergraduate Researcher, Dark Matter Detection Group　　　　　　　Jan. 2010 - Present

- Used CCD camera data, statistical analysis, and detector images to determine the sources of background alpha particle radiation in the dark matter detector
- Used UNIX operating system, LATEX, C++, Emacs, and ROOT 5.14 for data analysis

Department of Biology, University of Texas at Dallas　　　　　　　　**Richardson, TX**
Research Intern　　　　　　　　　　　　　　　　　　　　　　　June 2008 - July 2008

- Studied crucial role of RNA editing in the mitochondrial gene expression of *Physarum Polycephalum*
- Methods used: centrifugation, gel electrophoresis, polymerase chain reaction, DNA/RNA priming, amplification techniques, southern blot, nucleotide sequencing software, etc.

Mathematical Analysis of the Sun's Differential Rotation　　　　　　　**Plano, TX**
Independent Researcher　　　　　　　　　　　　　　　　　　　Aug. 2004 - Mar. 2008

- Implemented novel techniques to determine the angular rotational characteristics of the sun's differential rotation using MDI images from NASA's Solar & Heliospheric Observatory

AWARDS AND LEADERSHIP

- North Texas Youth Honor Society, *Vice-President* (2008), *Secretary* (2007)　　Aug. 2006 - May 2009
- Science Skeptical Society, *Co-Founder* and *Vice-President*　　　　　　Aug. 2007 - May 2009

Computer Science:　　　　　　　　　　　　　　　　　　　　Aug. 2008 - May 2009

- Winner of 2009 Annual Hewlett-Packard Competition
- Computer Science UIL Team, *Co-President*
- UIL Programming Examinations, Ranked Top 10 in State of Texas

Mathematics:　　　　　　　　　　　　　　　　　　　　　　Aug. 2005 - Mar. 2009

- American Invitational Mathematics Examination, 2-time qualifier, Ranked 1st in School
- Interests: number theory, prime number distribution, Riemann functions, etc.

Science Fair:　　　　　　　　　　　　　　　　　　　　　　Aug. 2004 - Mar. 2008

- Texas State Science Fair, 2-time qualifier
- Grand Prize Winner of Dallas Regional Science Fair (over 500 contestants)
- Discovery Young Scientist Challenge Semi-Finalist

SKILLS

Technical: C**,** C++, Python, Java, ROOT, LATEX, GNU Emacs, Microsoft Windows and Office
Foreign Languages: Fluent in Hindi and Marathi; 5 years of study in French