

## NIKITA KUMAR

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### EDUCATION

**Michigan State University, Michigan, U.S.A.**

Aug 2012 - May 2017

*Bachelors of Science (B.Sc) in Physics*

### RESEARCH

**Michigan State University, East Lansing, MI, U.S.A.**

Sept 2015 – April'2016

Department: Physics Education Research lab (PERL) @ MSU

Specialization: Evaluating and Improving the way scientific interdisciplinary concepts are taught across the Physics, Chemistry and Biology disciplines.

#### Activities and Skills:

- Actively participated in poster presentation in UURAF (University Undergraduate Research and Arts forum) and various research articles which helped me gain public speaking and presentation skills.
- Attended CUWiP (Conference of Undergraduate Women in Physics) held in Ohio State University, WSU and other Physics and Astrophysics seminars about clinical research (2013-2017).
- Contributed to the Research by submitting a Research paper on 'Investigating how students connect essential scientific ideas across the disciplines', indicating having good scientific writing skills.
- Collaborated with the Research team located in Florida and MSU on Textbook Analysis and investigated the conducted, transcribed interviews helping me achieve great communication and multitasking skills.
- Maintained an official weekly research blog that helped me enhance my Scientific Writing skills

### TECHNICAL SKILLS

C++; Python; HTML; Java; Mathematica; Matlab  
Idle; Anaconda; Netbeans; Xcode; Flash

### TECHNICAL COURSEWORK (2012-2016)

- |   |   |
|---|---|
| • Introduction to Quantum Mechanics           | • Thermal and Statistical Physics             |
| • Introduction to Electrodynamics             | • Electronics                                 |
| • Introduction to Nuclear Physics             | • Physics for Scientists and Engineers (I,II) |
| • Introduction to Elementary Particle Physics | • Introduction to Programming (Python)        |
| • Classical Mechanics                         | • Introduction to C++                         |
| • Advanced laboratory                         | • Discrete Mathematics and its Applications   |

### ADDITIONAL

#### Leadership:

- Chief editor in School Student Magazine Editorial Committee. (2010)

#### Awards:

- Participated in and won many prizes in music, art, dance and public speaking (2002 to 2011) showing my creative side.
- Awarded as the Best Student Award (2011)
- Distinction in English Olympiad conducted by Macmillan, Australia (2010) and participated in many Math and Science Olympiads helping me advance my problem solving skills.
- Recipient of Scholar Badge for Academic Excellence (2009)

#### Participation:

- Going to a field trip to Fermi National Accelerator Laboratory (2016) helped me learn more about Particle Physics and explore the lab with a team.
- Active member of SPS (Society of Physics Students), SWiPA (Society of Women in Physics and Astronomy (2014-present) and WiC (Women in Computing) (2013)
- Attending Spartahack held at MSU in 2013 enriched my vision on teamwork.
- Volunteered in organizing and participated in dorm events (2012-2013)
- AIEEE (All India Entrance Engineering Examination) qualified in the year 2012.

#### Community:

- Actively donated household items and clothing to Goodwill, East Lansing, (2012-2016)

#### Conferences/Seminars:

- Attended various seminars about CERN, ATLAS, Recent research about Condensed Matter Physics, Computational Physics, Nuclear Physics, Quantum chromodynamics and many more (2014-2017)
- Being present for a conference on “How to help women from across the world to pursue higher further education in Physics and Engineering” (2015)