Shivangi Prasad

sprasad6@illinois.edu   shivangiphy.github.io/   linkedin.com/in/shivangiphy/

Education

University of Illinois, Urbana-Champaign   2012-present
PhD., Nuclear physics. GPA 3.83/4.00   Expected graduation: December 2019

Indian Institute of Technology, Kharagpur   2007-2012
B.Sc & M.Sc dual degree, Physics, GPA 8.53/10.00

Relevant Courses

- Applied Machine learning in Python
- Mathematical Physics I & II
- Python and statistics for financial analysis
- How Google does Machine Learning
- Launching into Machine Learning

Research Experience

University of Illinois, Urbana-Champaign *Research Assistant*   August 2013-present
- Working on dissertation on a FermiLab experiment, SeaQuest, a collaboration of 50 members from 10 different institutions and 3 countries.
- Performed analysis on large-scale data set using MySQL, CERN-ROOT (C++) and FORTRAN.
- Managed and updated Monte Carlo C++ code for the collaboration.
- Presented in American Physics Society conference and Gordon Research Conference (invited talk) in front of 50+ audience.

University of Massachusetts, Dartmouth *Research intern*   June 2011-August 2011
- Analyzed and tested models to understand the dynamics of astrophysical systems.
- Contribution acknowledged in publication.

Raman Research Institute, Bangalore *Research intern*   May 2010 -July 2010
- Reproduced published results by senior researchers in the field of astrophysics.

Leadership Experience

University of Illinois, Urbana-Champaign *Teaching Assistant*   August 2012 – July 2014
- Assisted in teaching undergraduate courses with 10 – 90 students.
- Led weekly laboratory and discussion classes.
- Supervised students with weekly home works and graded exam.
- Selected in the list of excellent TA's in Fall 2012 and Spring 2013.

Awards/Prizes
- Felix T Adler fellowship (2017) : Outstanding graduate student in nuclear physics.
- Institute silver medal & department gold medal (2012) : Securing highest GPA at the end of 10th semester and best student in laboratory practices and project work.
- PuzzleBang (2018) : Team won 3rd prize in university-wide puzzle contest conducted over a week.

Skills & Interests
Technical: MySQL, CERN-ROOT, LaTex, Python, C++, FORTRAN, MatLab
Language: English, Hindi
Interests: Cooking, Gardening, Escape rooms