



## Abhishek Prakash

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### PROFESSIONAL OVERVIEW

Astronomer with areas of competence in **mathematical**, **statistical** modelling and **machine learning** on **large data-sets**. Proven track record of self-directed, disciplined and innovative **research**. Experienced in **leading team** of highly qualified astronomers for time-bound **result oriented** research **projects**. Excellent **technical writing** and **communication** skill employed to present research in various **international conferences** and **peer-reviewed journals**.

### SUMMARY OF SKILLS

- **5 years 6 months** of experience in assembling and analyzing **large data sets** and **data reduction**.
- Used (**SSH** and **SQL**) for reducing datasets of **TB scale**.
- Experienced in using **mathematical and statistical modeling** to establish error estimates in data collection (**multivariate regression**).
- knowledge of **SVN**, **git**, **IDL**.
- **Development lead** for creation of galaxy catalogs and **error modeling** at SDSS-IV/eBOSS collaboration.
- Development lead for **machine learning algorithms** (**Scikit-learn**) at LSST collaboration.
- Expertise in **Python** packages, **Numpy**, **Scipy**, **Matplotlib**, **Pandas**, **Seaborn**, etc.
- Expertise in **MsOffice**, **latex**, **Keynote**.

### FELLOWSHIPS AND AWARDS

- "Architect" award for SDSS-IV
- Arts and Sciences **Graduate Fellowship** (2015, 2016)

### EDUCATION

**Ph.D.: (ABD) Physics & Astronomy**  
University of Pittsburgh, Pittsburgh, USA 2017

### LEADERSHIP ROLES

- **Co-President**, Early Career Scientist group (ECS) at SDSS-IV, 2014-2016
- **Referee**, The Astrophysical Journal (ApJ), 2015-onwards
- **President**, Association of Physics and Astronomy Graduate Students (APAGS) 2014-2016

### PROFESSIONAL EXPERIENCE

Large Synoptic Survey Telescope (LSST), Graduate researcher, Aug 2015 to Current

Dark Energy Spectroscopic Instrument (DESI), Researcher, Aug 2014 to Current

Sloan Digital Sky Survey (SDSS), Researcher Jan 2012 to Current