



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**.

EDUCATION

Ph.D.: (ABD) Physics & Astronomy

University of Pittsburgh, Pittsburgh, USA 2017

AWARDS AND PUBLICATIONS

- "**Architect**" award for **SDSS-IV**
- Arts and Sciences **Graduate Fellowship** (2015, 2016)
- Publications can be found here, <https://tinyurl.com/h7jbvyp>

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