Dr. Arun Kannawadi

Webpage: arunkannawadi.github.io

Emails: arunkannawadi@princeton.edu, kannawadi.arun@gmail.com

Postdoctoral Research Associate, Dept. of Astrophysical Sciences, Princeton University

RESEARCH Weak gravitational lensing (WL), Galaxy clusters, Mass mapping, INTERESTS Large-scale structure of the Universe, Cosmology with Big Data

EDUCATION Doctorate of Philosophy

McWilliams Center for Cosmology

Department of Physics, Carnegie Mellon University

Advisor: Prof. Rachel Mandelbaum

Thesis title: Systematic effects in realistic image simulations

for future Weak Lensing surveys

Master of Science, Physics August 2011 - May 2013

Department of Physics, Carnegie Mellon University (CMU)

Bachelor of Technology, Electrical Engineering August 2007 - June 2011

Minor: Physics Indian Institute of Technology, Madras (IITM)

Chennai, India

WORK Postdoctoral Research Associate October 2019 onwards

EXPERIENCE (LSST DRP Software Scientist)

Princeton University, Princeton NJ, USA.

Postdoctoral Researcher September 2016 - September 2019

Leiden Observatory, Leiden, The Netherlands

MITACS Globalink Research Assistant May 2010 - August 2010

University of Toronto, Toronto, Canada.

Summer intern, working on μ CLinux May 2009 - August 2009

Sands India Pvt. Ltd., Chennai, India

SOFTWARE Python, C, C++, Matlab/Octave, Git, LATEX

Co-developed GalSim¹, an open source package for realistic galaxy image simulations. SKILLS

Developer, LSST Data Management

PUBLICATIONS As of December 1, 2019, I have 10 referred papers and 6 pre-prints, with a total of 243 citations

(according to NASA/ADS).

TALKS Plenary talk at the Euclid Consortium meeting, Helsinki, Finland June 2019

Cosmology on Safari, KwaZulu-Natal, South Africa

Stony Brook/Brookhaven National laboratory joint cosmology seminar

HSC meeting, Princeton University, Princeton

Seminar, Raman Research Institute, Bangalore

Seminar, Indian Institute of Astrophysics, Bangalore

Seminar, Indian Institute of Technology, Madras (Chennai)

1 https://github.com/GalSim-developers/GalSim

May 2013 - August 2016

March 2019

January 2019

January 2019

December 2017

December 2017 Dec 2017, Jan 2015

	Dark Energy in the Laboratory, Lorentz Center, Leiden 228 th meeting, American Astronomical Society (AAS), San Diego Santa Fe Cosmology Workshop, 2015 Neighborhood workshop, Pennsylvania State University (PSU)	November 2017 June 2016 July 2015 March 2015
TEACHING EXPERIENCE	Invited lecturer - Special undergraduate course on Gravitational Lensis - University of Antioquia, Medellin, Colombia LEAPS ³ research advisor for undergraduate students Research supervisor for a Masters student TA - Summer Academy of Mathematics and Science (SAMS) TA - Physics-II for Engineers (33-107) TA - Matter and Interactions-II (33-132) TA - Physics-II for Science students (33-112)	Summer 2017 Summer 2017 & 2018 October 2018 - July 2019 Summer-2 2012 Summer-1 2012 Spring 2012 Fall 2011, 2012
PROFESSIONAL Reviewer for Monthly Notices of Royal Astronomical Society (MNRAS)		
ACTIVITIES &	Junior member, International Astronomical Union	October 2018 - present
OUTREACH	Member of Euclid Consortium Diversity Committee	June 2018 - present
	Public talk, Planetarium of Medellin, Colombia	July 2017
	Public talk, Allegheny Observatory, Pittsburgh	July 2016
	Poster Judge for 228th AAS meeting	June 2016
	Poster Judge for Meeting of the Minds, CMU	May 2016
	Coordinator for Science outreach, National Service Scheme, IITM	Aug 2008 - July 2009
LEADERSHIP	Co-Lead, Shape measurement work package, Euclid Consortium Organising team, Astronomy on Tap, Leiden President, Vice-President and Treasurer Indian Graduate Student Association, CMU	September 2017 - present March 2017 - present 2012-2014
		January 2010 - October 2010
	Project lead, Fertiliser feeder, Spirit of Engineering, IITM	May 2008 - October 2008
POSTERS	Workshop on Weak gravitational lensing, Berkeley	January 2019
PRESENTED	Workshop on Foreground physical effects on LSST WL Science	December 2015
TICESETTE	Innovation with Impact, CMU	April 2015
	224 th meeting, American Astronomical Society (AAS), Boston	June 2014
WORKSHOPS	Euclid Consortium meeting, Bonn, Germany	June 2018
	Statistical challenges for LSS in the era of LSST, Oxford, England	April 2018
TAILITOH ATED	Euclid Consortium meeting, London, England	June 2017
	The Bright & Dark Universe, Naples, Italy	January 2017
	LSST Dark Energy Science Collaboration meeting, Sacramento, USA	March 2015
	Wide Field Infra-Red Survey meeting, Pasadena, USA	November 2014
	Santa Fe Cosmology Workshops, 2013 & 2014	July 2013, 2014
	Summer school on Astrostatistics, Pennsylvania State University (PSU	
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 $[\]overline{2}_{\text{https://sites.google.com/site/astrotwincolo/meetings/2017-5th-meeting}} \quad 3_{\text{http://leaps.strw.leidenuniv.nl/}}$

REFERENCES

Prof. Dr. Henk Hoekstra

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Prof. Rachel Mandelbaum

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Tel: +1 412 268 1714

Prof. Suresh Govindarajan

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Tel: +91-44-22574867

Prof. Lance Miller

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Tel: 01865 (2)73342

Prof. Catherine Heymans

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