

Joseph Matthew Clampitt

Dept. of Physics and Astronomy
University of Pennsylvania
209 South 33rd St.
Philadelphia, PA 19104

Phone: +1 (215) 898-7942
clampitt@sas.upenn.edu

Education

Ph.D. Physics, University of Pennsylvania, May 2014
Advisor: Bhuvnesh Jain, Department of Physics and Astronomy
Thesis: Weak Lensing and Modified Gravity of Cosmic Structure

B.S. Physics (Honors), Purdue University, 2009
Summa Cum Laude

Research Experience

Postdoctoral Researcher, Advisor: Bhuvnesh Jain 2014—present
University of Pennsylvania

Research Assistant, Advisor: Bhuvnesh Jain 2010—2014
University of Pennsylvania

Undergraduate Research Assistant, Advisor: Ian Shipsey 2007—2009
Purdue University

Research Experience for Undergraduates, Advisor: Jose Lazo-Flores Summer 2008
CERN (European Council for Nuclear Research)

Research Experience for Undergraduates, Advisor: Mark Messier Summer 2007
Indiana University

Publications

Adhikari, Dalal, **Clampitt** “Observing Dynamical Friction in Galaxy Clusters”
arxiv:1605.06688

Sanchez, **Clampitt**, Kovacs, et al. “Cosmic Voids and Void Lensing in the DES Science Verification Data”
arxiv:1605.03982

Fang, **Clampitt**, Dalal, et al. “Tidal Stripping as a test of Satellite Quenching in redMaPPer Clusters”
arxiv:1604.08611

Kwan, Sanchez, **Clampitt**, et al. “Cosmology from Large Scale Galaxy Clustering and Galaxy-Galaxy Lensing with Dark Energy Survey Science Verification Data” arxiv:1604.07871

Clampitt, Sanchez, Kwan, et al. “Galaxy-Galaxy Lensing in the DES Science Verification Data”
arxiv:1603.05790

Baxter, **Clampitt**, Giannantonio, et al. “Joint Measurement of Lensing-Galaxy Correlations Using SPT and DES SV Data” arxiv:1602.07384

Clampitt, Jain “Lensing Measurements of the Ellipticity of LRG Dark Matter Halos”
MNRAS 457, 4135 (2016)

Clampitt, Miyatake, Jain, Takada, “Detection of Stacked Filament Lensing Between SDSS Luminous Red Galaxies” MNRAS 457, 2391 (2016)

Clampitt, Jain, Sanchez “Clustering and Bias Measurements of SDSS Voids”
MNRAS 456, 4425 (2016)

The Dark Energy Survey Collaboration, et al. “Cosmology from Cosmic Shear with DES Science Verification Data” arxiv:1507.05552

Jarvis, et al. “The DES Science Verification Weak Lensing Shear Catalogues”
MNRAS accepted, arxiv:1507.05603

Park, et al. “Joint Analysis of Galaxy-Galaxy Lensing and Galaxy Clustering: Methodology and Forecasts for DES”
arxiv:1507.05353

Clampitt, Jain “Lensing Measurements of the Mass Distribution in SDSS Voids” MNRAS 454, 3357 (2015)

Lam, **Clampitt, Cai, Li** “Voids in Modified Gravity Reloaded: Eulerian Void Assignment” MNRAS 450, 3319 (2015)

Melchior, et al. “Mass and galaxy distributions of four massive galaxy clusters from Dark Energy Survey Science Verification data” MNRAS 449, 2219 (2015)

Clampitt, Cai, Li “Voids in modified gravity: excursion set predictions” MNRAS 431, 749 (2013)

Clampitt, Jain, Khoury “Halo scale predictions of symmetron modified gravity” JCAP 1, 30 (2012)

Invited Talks and Sessions Coordinated

Coordinated session at Dark Energy Survey SLAC meeting “Galaxy-galaxy Lensing Tests and Projects”	May 2016
Coordinated session at Dark Energy Survey Madrid meeting “Galaxy-galaxy Lensing Projects in Year 1 Data”	October 2015
Invited talk at Kavli IPMU, Chiba, Japan “Halo Ellipticity with Weak Lensing”	July 2015
Invited talk at Princeton University, Princeton, NJ “Lensing Measurements of SDSS Voids”	December 2014
Berkeley Cosmology Seminar, Berkeley, CA “Lensing Measurements of SDSS Voids and Filaments”	October 2014
Coordinated session at Dark Energy Survey (DES) Sussex meeting “Galaxy-galaxy Lensing in Science Verification Data”	October 2014
Invited talk at Cosmic Voids workshop, Columbus, OH “Weak Lensing Mass Profiles of SDSS Voids”	August 2014
Invited talk at American Physical Society meeting, Savannah, GA “Weak Lensing with the Dark Energy Survey”	April 2014
Coordinated session at Dark Energy Survey (DES) Barcelona meeting “Galaxy-galaxy Lensing in Science Verification Data”	October 2013
Coordinated session at DES Lensing plus Structure meeting, Fermilab “Galaxy-galaxy Lensing in Simulations”	May 2013
Coordinated session at DES Lawrence Berkeley National Lab meeting “Galaxy-galaxy Lensing in Early Cluster Data”	April 2013
Co-coordinated two sessions at DES Texas A&M meeting “Topics in Galaxy-galaxy Lensing” and “Combined Probes: Lensing plus Structure”	December 2012

Other Talks and Posters

Durham University: Ripples in the Cosmos “Voids in Modified Gravity: Excursion Set Predictions”	July 2013
----------------------------------------------------------------------------------------------------	-----------

Dark Energy Survey Munich meeting “Galaxy-galaxy Lensing: DES Forecasts and Baryon Systematics”	May 2012
East Coast Gravity Meeting “Halo Scale Predictions of Symmetron and Chameleon Gravity”	April 2012
CERN Summer Student presentations, Meyrin, Switzerland “Displays for the CMS Beam Conditions and Radiation Monitoring System”	July 2008
Purdue Undergraduate Research Poster Symposium “Image Distortions Due to Variations in Camera Flatness for the Large Synoptic Survey Telescope”	March 2008
Argonne Undergraduate Research Symposium “Transfer Matrix Method for Using the NovA Surface Detector to Measure the Neutrino Spectrum at MINOS”	November 2007
Purdue Undergraduate Research Poster Symposium “Testing the Compact Muon Solenoid Forward Pixel Detector” <i>Winner of College of Science Dean's Award</i>	March 2007

Service and Awards

Refereed for journals JCAP and MNRAS	2015 – present
Coordinated DES galaxy-galaxy lensing subgroup	2013 – 2016
Public outreach on cosmic voids at COSI, Columbus, OH	August 2014
Zaccheus Daniel Foundation for Astronomical Science Fellowship	2012–2013
Organized University of Pennsylvania weekly Astrophysics Journal Club	2011–2012
College of Science Dean's Award, Purdue Undergraduate Poster Symposium	2007

Teaching Experience

Mentored PhD and undergraduate physics students including Yuedong Fang, Charles Davis, and Andrew Neil	2013—present
Guest lecturer, University of Pennsylvania Introduction to Astrophysics II	2013
Teaching Assistant, University of Pennsylvania General Physics Lab: Mechanics, Heat, and Sound	2009—2010
Undergraduate Teaching Assistant, Purdue University Matter and Interactions: Mechanics	2006

References

Dr. Bhuvnesh Jain

Edmund J. and Louise W. Kahn Term Chair in the Natural Sciences
Professor, Department of Physics and Astronomy
University of Pennsylvania
209 South 33rd St.
Philadelphia, PA 19104
+1 (215) 898-2010
bjain@physics.upenn.edu

Dr. Masahiro Takada

Professor, Kavli Institute for the Physics and Mathematics of the Universe
Todai Institutes for Advanced Study (TODIAS)
The University of Tokyo
5-1-5 Kashiwa-no-Ha, Kashiwa City
Chiba, 277-8568, Japan
+81-4-7136-6510
masahiro.takada@ipmu.jp

Dr. Sarah Bridle

Professor of Astrophysics, School of Physics and Astronomy
The University of Manchester
Manchester
M13 3PL
sarah@sarahbridle.net

Dr. Baojiu Li

Senior Lecturer, Department of Physics
Durham University
South Road
DH1 3LE
UK
+44 (0) 191 33 43567
baojiu.li@durham.ac.uk

CV Last Updated June 2016