Eric Huff

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Employment

Staff Scientist — 2016, continuing
Jet Propulsion Laboratory
4800 Oak Grove Dr, Pasadena, California 91109, USA

CCAPP Postdoctoral Fellow — 2012 - 2016
Center for Cosmology and AstroParticle Physics
The Ohio State University, Columbus, Ohio 43210, USA

Education

PhD, Astrophysics
University of California, Berkeley — 2012
Thesis: *Seeing in the Dark: A Cosmic Shear Measurement in the Sloan Digital Sky Survey*
Advisor: David Schlegel

M.A., Astrophysics
Univ. of California, Berkeley — 2007

B.S., Astronomy, Physics, and Mathematics
University of Arizona — 2005

Selected Publications

1. *No Galaxy Left Behind: Accurate measurements with very incomplete galaxy samples in the Dark Energy Survey*
   Suchyta, E., **Huff, E.**, A, Aleksić, J., et al. 2016, MNRAS, 456, 786
2. *The DES Science Verification Weak Lensing Shear Catalogs*
   Jarvis, M., Sheldon, E., Zuntz, J. et al. 2015, MNRAS, 460, 2245
3. *Cosmology from Cosmic Shear with DES Science Verification Data*
   Phys. Rev. D, 94, 0220001 The Dark Energy Survey Collaboration (2016)
4. *Mass and galaxy distributions of four massive galaxy clusters from Dark Energy Survey Science Verification data*
   Melchior, P., Suchyta, E., **Huff, E. M.**, et al. 2015, MNRAS, 449, 2219
5. *Mapping and simulating systematics due to spatially-varying observing conditions in DES Science Verification data*
   Leistedt, B., Peiris, H. V., Elsner, F., et al. 2016, ApJS, 226, 24
6. *Simulations of the OzDES AGN Reverberation Mapping Project*
   King, A. L., Martini, P., Davis, T. M., et al. 2015, MNRAS, 453, 1701
7. *Intrinsic alignments of group and cluster galaxies in photometric surveys*
   Chisari, Nora Elisa, Mandelbaum, Rachel, Strauss, Michael A., **Huff, Eric M.**, Bahcall, Neta A. 2014, MNRAS, 445, 726

8. *GREAT3 results - I. Systematic errors in shear estimation and the impact of real galaxy morphology*
Mandelbaum, R., Rowe, B., Armstrong, R., et al. 2015, MNRAS, 450, 2963
9. *A New Framework for a Model-Based Data Science Computational Platform*
Muna, D., & **Huff, E.** 2014, arXiv:1402.5932
10. *Seeing in the Dark - II. Cosmic shear in the Sloan Digital Sky Survey*
Huff, E. M., Eifler, T., Hirata, C. M., et al. 2014, MNRAS, 440, 1322
11. *Seeing in the Dark - I. Multi-epoch Alchemy*
Huff, E. M., Hirata, C. M., Mandelbaum, R., Schlegel, D. J., Seljak, U., Lupton, R. 2014, MNRAS, 440, 1296
12. *Magnificent Magnification: Exploiting the Other Half of the Lensing Signal*
Huff, E. M., & Graves, G. J. 2014, ApJL, 780, L16
13. *Sloan Digital Sky Survey III Photometric Quasar Clustering: Probing the Initial Conditions of the Universe using the Largest Volume*
Ho, S., Agarwal, N., Myers, A. D., et al. 2013, arXiv:1311.2597
14. *Cosmic Shear Without Shape Noise*
Huff, E. M., Krause, E., Eifler, T., George, M. R., & Schlegel, D. 2013, arXiv:1311.1489
15. *Shell tectonics: A mechanical model for strike-slip displacement on Europa*
Rhoden, A. R., Wurman, G., **Huff, E. M.**, Manga, M., & Hurford, T. A. 2012, Icarus, 218, 297
16. *Constraints on Europa's rotational dynamics from modeling of tidally-driven fractures*
Rhoden, A. R., Militzer, B., **Huff, E. M.**, et al. 2010, Icarus, 210, 770
17. *The Spectral Energy Distributions of Red Two Micron All Sky Survey Active Galactic Nuclei*
Kuraszkiewicz, J., Wilkes, B. J., Schmidt, G., et al. 2009, ApJ, 692, 1143
18. *Training the Next Generation of Astronomers*
Williams, P. K. G., **Huff, E.**, Maness, H. L., et al. 2009, astro2010: The Astronomy and Astrophysics Decadal Survey, 2010, 65P
19. *Cluster Formation in Contracting Molecular Clouds*
Huff, E. M., & Stahler, S. W. 2007, ApJ, 666, 281
20. *Simulations of baryon oscillations*
Huff, E., Schulz, A. E., White, M., Schlegel, D. J., & Warren, M. S. 2007, Astroparticle Physics, 26, 351
21. *Star Formation in Space and Time: The Orion Nebula Cluster*
Huff, E. M., & Stahler, S. W. 2006, ApJ, 644, 355

Invited Presentations

Invited Talk, Division of Particles and Fields of the American Physical Society (conference)	August 2015
Invited Talk, Great3 Final Meeting (workshop)	May 2014
Invited Talk, The Multi-Wavelength, Multi-Epoch Heritage of Stripe 82 (workshop)	March 2014
Seminar, KIPAC, Stanford Linear Accelerator Center	February 2014
Astronomy and Astrophysics Seminar, Michigan State University	September 2013
Colloquium, School of Physics and Astronomy, Rochester Institute of Technology	October 2013
Invited Talk, Probes of Dark Matter on Galactic Scales (AAS Topical Conference)	July 2013
Seminar, KICP, University of Chicago	January 2012
Particle Physics Seminar, Brookhaven National Lab	January 2012
Cosmology seminar, Yale University	October 2011
CCAPP Seminar, the Ohio State University	October 2011

Successful Competed Proposals

Mass Mapping Abell 2261 with Kinematic Weak Lensing (awarded time on the Keck II telescope, Semester 2015A)

Mass Mapping Abell 2261 with Kinematic Weak Lensing (awarded time on the Keck II telescope, Semester 2014A)

Weak Lensing with Kinematics: A Pilot Program (awarded time on the Large Binocular Telescope, Semester 2014A)

Student Mentoring

I have played a significant role in supervising research projects of the following students at Ohio State University:

Eric Suchyta

Kenneth Patton

Su-Jeong Lee

Jenna Freudenberg