

Contact	The McWilliams Center for Cosmology Department of Physics Carnegie Mellon University 5000 Forbes Avenue, Pittsburgh, PA 15213, USA	E-MAIL: hungjinh@andrew.cmu.edu WEBSITE: https://hungjinh.github.io
Research Interests	Cosmology and Extragalactic Astrophysics Large-scale structures, weak gravitational lensing, intrinsic alignment of galaxies, galaxy-halo connection, galaxy formation and evolution	
Educational Background	Ph.D in Physics Department of Physics, Carnegie Mellon University, Pittsburgh, PA USA Thesis project: Astrophysical systematics in weak lensing M.S. in Astrophysics Graduate Institute of Astrophysics, National Taiwan University, Taipei, Taiwan Thesis project: Gas motions around the protostar NGC 1333 IRAS 4A2 B.S. in Physics Department of Physics, National Taiwan University, Taipei, Taiwan	<i>(Expected)</i> Aug 2014 - Jul 2019 Sep 2012 - Jun 2014 Sep 2008 - Jun 2012
Scientific Collaborations	<ul style="list-style-type: none">• Large Synoptic Survey Telescope Dark Energy Science Collaboration (LSST DESC)• Dark Energy Survey (DES) (External Collaborator)	
Teaching Experience	<ul style="list-style-type: none">• Introduction to Astronomy, CMU• From Quarks to Black Holes, NTU	Fall 2017 Spring 2013
Department Service	<ul style="list-style-type: none">• Co-organizer of Astrosnacks The monthly joint student astronomy seminars between CMU and Pitt.• LOC of LSST DESC Collaboration meeting at CMU	2017-2018 Summer 2018

Publications
(ADS full list*)

1. **H.-J. Huang**, T. Eifler, R. Mandelbaum, and S. Dodelson. **Modeling baryonic physics in future weak lensing surveys**. *ArXiv e-prints*, September 2018 ADS arXiv:1809.01146
2. Y.-T. Lin, **H.-J. Huang**, and Y.-C. Chen. **An Analysis Framework for Understanding the Origin of Nuclear Activity in Low-power Radio Galaxies**. *AJ*, 155:188, May 2018 ADS arXiv:1803.02482
3. **H.-J. Huang**, R. Mandelbaum, P. E. Freeman, Y.-C. Chen, E. Rozo, and E. Rykoff. **Intrinsic alignment in redMaPPer clusters - II. Radial alignment of satellites towards cluster centres**. *MNRAS*, 474:4772–4794, March 2018 ADS arXiv:1704.06273
4. **H.-J. Huang**, R. Mandelbaum, P. E. Freeman, Y.-C. Chen, E. Rozo, E. Rykoff, and E. J. Baxter. **Intrinsic alignments in redMaPPer clusters - I. Central galaxy alignments and angular segregation of satellites**. *MNRAS*, 463:222–244, November 2016 ADS arXiv:1605.01065
5. Y.-T. Lin, R. Mandelbaum, Y.-H. Huang, **H.-J. Huang**, N. Dalal, B. Diemer, H.-Y. Jian, and A. Kravtsov. **On Detecting Halo Assembly Bias with Galaxy Populations**. *ApJ*, 819:119, March 2016 ADS arXiv:1504.07632
6. T. Inagaki, Y.-T. Lin, **H.-J. Huang**, B.-C. Hsieh, and N. Sugiyama. **Stellar mass assembly of brightest cluster galaxies at late times**. *MNRAS*, 446:1107–1114, January 2015 ADS arXiv:1409.4820

**Presentations
& Conferences**
2018

- LSST DESC Collaboration Meeting CMU Jul 23-27
- Talk:** Modeling baryonic physics in weak lensing for LSST
- Machine Learning in Science and Engineering CMU Jun 06-08
- Machine Learning & time domine astrophysics workshop CMU Jun 05
- LSST DESC WL general telecon Mar 12
- Talk:** Mitigating baryon's effect on weak lensing observables
- SnowCluster: the physics of galaxy cluster SLC, Utah Mar 18-23
- Poster:** Intrinsic alignments of galaxies in redMaPPer clusters

2017

- Cosmology on the beach Punta Mita Dec 10-16
- Talk:** Mitigating baryon's effect on weak lensing observables
- LSST DESC Collaboration Meeting Stony Brook U. Jul 10-14
- Poster:** Intrinsic alignments of galaxies in redMaPPer clusters
- The Galaxy-Halo Connection Across Cosmic Time KITP May 15-19
- Poster:** Intrinsic alignments of galaxies in redMaPPer clusters

2016

- Statistical Challenges in Modern Astronomy VI CMU Jun 06-10

References• **Rachel Mandelbaum**

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