

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

**Publications**  
(ADS full list\*)

1. 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](#)
2. **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](#)
3. **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](#)
4. 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](#)
5. 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](#)

**Publications in Progress**

1. **H.-J. Huang**, T. Eifler, R. Mandelbaum and S. Dodelson. **Modeling baryonic physics in future weak lensing surveys.**

**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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