

Contact	Department of Astronomy and Steward Observatory University of Arizona 933 North Cherry Avenue, Tucson, AZ 85719, USA	E-MAIL: hungjinh@email.arizona.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	
Appointment	Postdoctoral Research Associate Steward Observatory, University of Arizona	Sep 2019 - Present
Education	Ph.D in Physics Department of Physics, Carnegie Mellon University, Pittsburgh, PA USA	Aug 2014 - Aug 2019
	M.S. in Astrophysics Graduate Institute of Astrophysics, National Taiwan University, Taipei, Taiwan	Sep 2012 - Jun 2014
	B.S. in Physics Department of Physics, National Taiwan University, Taipei, Taiwan	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	• Introduction to Astronomy, CMU	Fall 2017
	• From Quarks to Black Holes, NTU	Spring 2013
Departmental Service	• Co-organizer of Astrosnacks and Hack hours The joint student seminars between CMU and Pitt focusing on astrophysics and coding.	2017-2018
	• LOC of LSST DESC Collaboration meeting at CMU	Summer 2018

Publications ([ADS full list*](#))

1. **H.-J. Huang**, Tim Eifler, Rachel Mandelbaum, and Scott Dodelson. Modelling baryonic physics in future weak lensing surveys. MNRAS, 488(2):1652–1678, Sep 2019
[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

- Accurate lensing in the era of precision Cosmology UC Berkeley Jan 14-16
Talk: Modeling uncertainties of baryon in cosmic shear
- BCCP cosmology seminar UC Berkeley Oct 9
Talk: Astrophysical systematics in weak lensing
- CosmoClub UC Santa Cruz Oct 8
Talk: Astrophysical systematics in weak lensing
- Tea talk Stanford Oct 5
Talk: Modeling baryonic physics in weak lensing
- 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 domain 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** E-MAIL: rmandelb@andrew.cmu.edu
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- **Tim Eifler** E-MAIL: timeifler@email.arizona.edu
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