

## Chao-Ling Hung – *Curriculum Vitae*

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### PERSONAL INFORMATION

Chao-Ling Hung  
Assistant Professor of Physics  
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### EDUCATION

**University of Hawaii – Ph.D.** in Astronomy (2015)  
Supervisor: Professor David B. Sanders  
Dissertation title: *Origin and Evolution of High- $z$  (U)LIRGs: Mergers or Secular Disks?*

**National Tsing Hua University – M.S.** in Astronomy (2010)  
Supervisor: Professor Shih-Ping Lai  
Thesis title: *Chemical and dynamical properties of a Very Low Luminosity Object – DCE065*

**National Tsing Hua University – B.S.** in Physics (2008)

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### EMPLOYMENT

Manhattan College – Assistant Professor (2017 - *Present*)  
The University of Texas at Austin – Harlan J. Smith Postdoctoral Fellow (2015-2017)  
Smithsonian Astrophysical Observatory Predoctoral Fellow (2014-2015)

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### RESEARCH INTERESTS

Galaxy formation and evolution, star formation at high-redshift, structure and dynamics of interacting and high-redshift galaxies, galaxy environments

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### SELECTED AWARDS AND GRANTS

ALMA Ambassadors Postdoctoral Program (2017; \$10,000)  
Harlan J. Smith Post-doctoral Fellowship (2015-17; \$210,000)  
University of Hawaii Student Excellence in Research (2015; \$1,000)  
Smithsonian Astrophysical Observatory Predoctoral Fellowship (2014-15)  
Friends of Institute for Astronomy Research Award (2012)

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TEACHING	<p>Introductory Physics Lectures and Labs Instructor (Calculus-based Mechanics, Electricity &amp; Magnetism, 2017)</p> <p>ISEE PDP Design Team Leader (designed/facilitated an inquiry-based activity as a team leader, 2017)</p> <p>TIDES Concentration in Teaching Participant (participated training programs, designed and taught two active learning classes; 2016-17)</p> <p>ISEE PDP Participant (designed/facilitated an inquiry-based activity, 2016)</p> <p>Introductory Astronomy Lecture Instructor (co-taught a summer introductory course, 2012)</p>
MENTORING	<p>Mentor of TAURUS<sup>†</sup> summer researcher: Adrianna Perez (2017)</p> <ul style="list-style-type: none"> <li>• <i>Star formation in interacting galaxies using FIRE simulations.</i></li> </ul> <p><sup>†</sup>The Texas Astronomy Undergraduate Research experience for Under-represented Students <a href="http://www.as.utexas.edu/taurus/">http://www.as.utexas.edu/taurus/</a></p> <p>Mentor of UT Austin undergraduate researcher: Richard Seifert (2016-17)</p> <ul style="list-style-type: none"> <li>• <i>Molecular gas content of galaxies in large scale environments. A first-authored paper is in preparation.</i></li> </ul> <p>Mentor of TAURUS summer researcher: Derek Holman (2016)</p> <ul style="list-style-type: none"> <li>• <i>Population of galaxy mergers in young galaxy cluster progenitors. The 229<sup>th</sup> AAS Meeting Contributed Poster.</i></li> </ul> <p>Mentor of high school researcher: Aaron Weiner (2014)</p> <ul style="list-style-type: none"> <li>• <i>Analyzing UV-FIR spectral energy distribution of luminous galaxy mergers. A paper was published in ApJ (Martínez-Galarza, J. R. et al. [including Weiner, A., Hung, C.-L.] 2016, ApJ, 817, 76)</i></li> </ul>
SERVICE	<p>Frank N. Bash Symposium Organizing Committee, Co-Chair (2017)</p> <p><i>HST</i> Cycle 25 panelist (2017)</p> <p><i>Spitzer</i> Cycle 13 panelist (2016)</p> <p>Referee of MNRAS, ApJ (2015-Present)</p>
TALKS IN 2017	<p>Galaxies and Cosmology Seminar, Harvard-Smithsonian Center for Astrophysics (11/17, <i>Invited</i>)</p> <p>Galaxy Ecosystem Conference, ESO (07/17)</p> <p>Early Stages of Galaxy Cluster Formation Conference, ESO (07/17)</p> <p>Colloquium, Manhattan College, NY (04/17, <i>Invited</i>)</p> <p>Colloquium, National Central University, Taiwan (03/17, <i>Invited</i>)</p>

DATA AND  
OBSERVING  
EXPERIENCE

*Observing time granted as PI:*

Optical & Near-Infrared: HET (LRS-2): 13.5 hours, Subaru (HSC): 1 night;  
Keck (NIRC 2): 2 nights; UH 2.2-meter (SNIFS): 9 nights  
Submillimeter & Radio: ALMA: 13 hours; SMA: 3 nights; ARO SMT/12-meter: 21 hours

*Data reduction and analysis:*

Optical/NIR imaging and spectroscopic data including *HST* ACS/WFC3, Keck NIRC2 & DEIMOS, Subaru Suprime-Cam & HSC, CFHT WIRCam. Submillimeter single-dish and interferometric data including SMA, JCMT Scuba-2, SMT, ARO 12-meter.

*Collaborations:*

Member of COSMOS and SuperCLASS collaborations

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PUBLICATION  
LIST

*First Author Refereed Papers:*

**Hung, C.-L.**, Casey, C. M., Chiang, Y.-K. et al. 2016 ApJ, 826, 130; *Large scale structure around a  $z = 2.1$  cluster*

**Hung, C.-L.**, Hayward, C. C., Smith, H. A. et al. 2016 ApJ, 816, 99; *Merger Signatures in the Dynamics of Star-forming Gas*

**Hung, C.-L.**, Rich, J. A., Yuan, T. et al. 2015, ApJ, 803, 62; *Kinematic classification of local interacting galaxies: Implications for the merger/disk classifications at high- $z$*

**Hung, C.-L.**, Sanders, D. B., Casey, C. M. et al. 2014, ApJ, 791, 63; *A comparison of the morphological properties between local and  $z \sim 1$  infrared-luminous galaxies. Are local and high- $z$  (U)LIRGs different?*

**Hung, C.-L.**, Sanders, D. B., Casey, C. M. et al. 2013, ApJ, 778, 2, p.129; *The role of galaxy interaction in the SFR-M relation: characterizing morphological properties of Herschel-selected galaxies at  $0.2 < z < 1.5$*

**Hung, C.-L.** & Ebeling, H., 2012, MNRAS, 421, 4, p.3229; *Galaxy alignments in very X-ray luminous clusters at  $z > 0.5$ ,*

**Hung, C.-L.**, Lai, S.-P., & Yan, C.-H. 2010, ApJ, 710, 1, p.207; *The evolution of density structure of starless and protostellar cores*

*Non-first Author Refereed Papers:*

Casey, C. M. et al. [including **Hung, C.-L.**] 2017, ApJ, 840, 2; *Near-*

*Infrared MOSFIRE Spectra of Dusty Star-Forming Galaxies at  $0.2 < z < 4$*

Risley, C. J. et al. [including **Hung, C.-L.**] 2016, MNRAS, 462, 917; *Deep observations of the Super-CLASS supercluster at 325 MHz with the GMRT: the low-frequency source catalogue*

Martínez-Galarza, J. R. et al. [including **Weiner, A.<sup>†</sup>**, **Hung, C.-L.**] 2016, ApJ, 817, 76; *Variations of the ISM conditions across the main sequence of star-forming galaxies: observations and simulations*

<sup>†</sup>High school researcher supervised in 2014.

Hsieh, T.-H. et al. [including **Hung, C.-L.**] 2015, ApJ, 802, 126; *Properties of the molecular cores of Low Luminosity Objects*

Lee, N. et al. [including **Hung, C.-L.**] 2015, ApJ, 801, 80; *A turnover in the galaxy main sequence of star formation at  $M \sim 10^{10} M_{\odot}$*

Koss, M. et al. [including **Hung, C.-L.**] 2014 MNRAS, 445, 515; *SDSS1133: An unusually persistent transient in a nearby dwarf galaxy*

<http://www.nasa.gov/content/goddard/nasas-swift-mission-probes-an-exotic-object>

Lee, N. et al. [including **Hung, C.-L.**] 2013, ApJ, 778, 2, p.131; *Multi-wavelength SEDs of Herschel selected galaxies in the COSMOS field*