

# Curriculum Vitae

**Lihwai Lin ( 林俐暉 )**

## CONTACT INFORMATION:

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WWW: <http://www.asiaa.sinica.edu.tw/~lihwaitlin>

## EDUCATION:

- 2001 - 2006 National Taiwan University, Taipei, Taiwan  
Department of Physics  
**Ph.D.** Received August 2006  
PhD Thesis Topic: "The Role of Major Galaxy Interactions in Galaxy Evolution Since Redshift  $z \sim 1$ "  
Thesis Advisor: Prof. **David Koo**(UCSC) and Prof. **Tzihong Chiueh**(NTU)
- University of California, Santa Cruz, USA  
University of California Observatory/LICK Observatory  
Department of Astronomy and Astrophysics  
**Visiting Scholar** Aug. 2002 – Feb. 2003 (supported by COSPA)  
**Visiting Scholar** Aug. 2003 – Jan. 2004 (supported by COSPA)  
**Visiting Scholar** May. 2004 – Aug. 2005 (supported by NSC and UCSC)
- CFHT Observatory  
**Visiting Astronomer** Mar. 2006 – Jul. 2006 (supported by CFHT)
- 1999 - 2001 National Taiwan University, Taipei, Taiwan  
Department of Physics  
**M.Sc.** Received Jul. 2001  
Master Thesis Topic: "Bias and merger of nonspherical halos"  
Thesis Advisor: Prof. **Tzihong Chiueh**
- 1995 - 1999 National Tsing-Hua University, Shin-Chu, Taiwan  
Department of Physics  
**B.Sc.** Received Jul. 1999

## AWARDS:

- 2018-2022 Career Development Award, Academia Sinica  
2004 NSC scholarship for graduate student to study abroad (國科會千里馬 Taiwan)  
2004 Wu Chien-Shiung Scholarship(吳健雄獎學金 Taiwan)

1995 – 1999 Scholarships for gifted students in physics, by Ministry of Education (Taiwan)  
1998 清華大學八十七學年第一學期物理系書卷獎(Taiwan)

## **EXPERIENCE:**

Jan. 2016 – Present

Academia Sinica, Nankang, Taiwan  
Institute of Astronomy and Astrophysics  
Associate Research Fellow (with tenured)

July 2009 – Dec. 2015

Academia Sinica, Nankang, Taiwan  
Institute of Astronomy and Astrophysics  
Assistant Research Fellow

Sep 2007 – June 2009

Academia Sinica, Nankang, Taiwan  
Institute of Astronomy and Astrophysics  
Postdoc. fellows  
Supervisors: Dr. **Paul Ho**(ASIAA) and Dr. **Jeremy Lim**(ASIAA)

Dec 2006 – August 2007

University of California, Santa, Cruz, USA  
University of California Observatory/LICK Observatory  
Department of Astronomy and Astrophysics  
Postdoc. fellows  
Supervisor: Prof. **David C. Koo**(UCSC)

Aug 2006 – November 2006

National Taiwan University, Taipei, Taiwan  
Department of Physics  
Postdoc. fellows  
Supervisor: Prof. **Tzihong Chiueh**(NTU)

## **PRIMARY RESEARCH INTERESTS:**

### [1] Galaxy Mergers and Interactions

The galaxy merger rates as a function of redshift, galaxy type, and environment  
The connection between galaxy interactions and triggered starformation  
The connection between AGN activities and galaxy interactions

### [2] High-Redshift Galaxies

The stellar mass evolution of distant galaxies  
The search for high-redshift galaxies

### [3] Large-Scale Structures

Galaxy clustering  
Galaxy properties in groups and clusters  
Halo occupation distributions

#### **LARGE INTERNATIONAL RESEARCH PROJECTS PARTICIPATED:**

##### **[6] SDSS-IV/MaNGA Survey**

An optical IFU survey for 10K nearby galaxies to understand the life circle of galaxies

<http://www.sdss.org/>

##### **[5] HSC (Hyper Suprime-Cam Survey)**

An optical multi broad- and narrow-band imaging surveys for dark energy and galaxy evolution

<http://www.subarutelescope.org/Projects/HSC/surveyplan.html>

##### **[4] PAN-STARRS (The Panoramic Survey Telescope & Rapid Response System):**

An optical 5-band imaging nearly all-sky survey to explore sciences from solar system to cosmology

<http://pan-starrs.ifa.hawaii.edu/public/>

##### **[3] GOODS (The Great Observatories Origins Deep Survey):**

Multiwavelength deep observations from Spitzer Space Telescope, Hubble, and Chandra, ESA's XMM-Newton, together with other ground-based facilities, to survey the distant universe

<http://www.stsci.edu/science/goods/>

##### **[2] AEGIS (All-wavelength Extended Groth Strip International Survey):**

A multiwavelength sky survey conducted with the Chandra, GALEX, Hubble, Keck, CFHT,MMT, Subaru, Palomar, Spitzer, VLA, and the other telescopes and supported in part by the NSF, NASA, and the STFC

<http://aegis.ucolick.org/index.html>

##### **[1] DEEP2:**

An optical spectroscopic redshift survey using the Keck telescope to study the distant Universe; a collaboration between astronomers at UC Berkeley, UC Santa Cruz, and University of Hawaii

<http://deep.berkeley.edu/~marc/deep/>

#### **RESEARCH GRANTS**

MoST research grant MoST 106-2112-M-001-034-, 2017/08/01 ~ 2018/07/31

MoST research grant MoST 103-2112-M-001-031-MY3, 2014/08/01 ~ 2017/07/31

NSC research grant NSC 101-2112-M-001-011-MY2, 2012/08/01 ~ 2014/07/31

NSC research grant NSC 99-2112-M-001-003-MY3, 2010/01/01 ~ 2012/07/31

#### **SELECTED ALLOCATIONS OF TELESCOPE/FACILITY TIME:**

2017            **Lin et al.** "The role of molecular gas in quenching star formation of green valley galaxies"

(ALMA Cycle 5; 24.6 hrs)

2017            **Lin et al.** "A `Dark' Galaxy/Gas Cloud or Stripped Gas?"

(CFHT/MegaCam; 8.2 hrs)

2016            **Lin et al.** "Interaction with a dark galaxy?"

- (IRAM/NOEMA; 36.1 hrs)
- 2015 **Lin** et al. “CO(1-0) Observations of IFU Selected Green Valley Galaxies”  
(ALMA Cycle 3; 5.9 hrs)
- 2015 **Lin** et al. “Interaction with a Dark Galaxy?”  
(CFHT/MEGACAM 2015A Director's Discretionary Time; 4 hrs)
- 2015 **Lin** et al. “CO observations of the MaNGA main-sequence galaxies”  
(JCMT 2015A; 30 hrs)
- 2015 **Lin** et al. “WIRCAM H-band Survey in the Extended GOODS-N Field”  
(CFHT/WIRCAM 2015A; 19 hrs)
- 2014 Lin et al. “Unveiling the importance of mergers in galaxy evolution with the MaNGA Merger sample” (MaNGA Ancillary Proposal; 67 IFUs)
- 2014 **Lin** et al. “WIRCAM H-band Survey in the Extended GOODS-N Field”  
(CFHT/WIRCAM 2014A; 17 hrs)
- 2013 Capak, ...**Lin** et al. “SPLASH: Spitzer Large Area Survey with Hyper-Suprime-Cam”,  
(Spitzer Warm Mission Cycle 10, 1650 hrs)
- 2012 Capak, ...**Lin** et al. “SPLASH: Spitzer Large Area Survey with Hyper-Suprime-Cam”,  
(Spitzer Warm Mission Cycle 9, 1251 hrs)
- 2011 – 2012 **Lin** et al. “WIRCAM H-band Survey in the Extended GOODS-N Field”  
(CFHT/WIRCAM 2011A, 2012A; 24 hrs)
- 2008 Fazio, ...**Lin** et al. “SEDS: The Spitzer Extended Deep Survey”  
(Spitzer Warm Mission Cycle 6, 2108 hrs)
- 2008 **Lin** et al. “Environment of Galaxy Mergers at  $z = 1$ ”,  
(CFHT/WIRCAM 2008B; 6 hrs)
- 2007 Willmer, ...**Lin** et al.: “The space densities of red galaxies at  $z \sim 1$ ”,  
(MMT/MegaCam)
- 2006 – 2009 **Lin** et al. “Nature of High- $z$  galaxies”, and  
“The Role of Galaxy Interaction in the Star Formation History of Galaxies up to  $z \sim 1.4$ ”,  
(CFHT/WIRCam 2006A, 2007A, and 2009A; 52 hours)
- 2007 Yan, **Lin** et al. “NICMOS Confirmation of Luminous  $z$ -band Dropouts in the GOODS Fields”  
(HST Cycle 16)
- 2004 – 2005 **Lin** et al. “MegaCam  $i'$  and  $z'$  survey of Deep2 Fields”,  
(CFHT/MegaCam 2004A, 2004B, and 2005A; 21 hours)

## **POSTDOC AND STUDENTS SUPERVISED IN RESEARCH:**

### Postdoc

- 2017-present Hsi-An Pan  
2016-present Li-Ting Hsu  
2014-present Hung-Yu Jian (support astronomer)  
2010-2013 Hung-Yu Jian (NTU) (joint with Prof. Tzi-Hung Chiueh from NTU)  
2011-2013 Chin-Wei Chen (ASIAA)

### Research Assistant

- 2014- Chuan-Chin Lai (ASIAA)

### Graduate Student

- 2015-2016 Chin-Hao Hsu (NTU)
- 2014-2015 Jing-Hua Lin (NTU)
- 2011-2013 Chuan-Chin Lai (NTU, joint with Prof. Tzi-Hung Chiueh from NTU ): “Measuring galaxy environment with spectroscopic and photometric redshifts”
- 2008-2010 Hong-Lin Liao (NTU, joint with Prof. Tzi-Hung Chiueh from NTU ): “The evolution of properties of galaxy groups”
- 2007-2008 Mong-Shew Li (NTU, joint with Prof. Tzi-Hung Chiueh from NTU ): “The properties of red-sequence galaxies at redshift  $\sim 2$ ”
- 2006-2007 Hau-Yu Baobab Liu (NTU, joint with Prof. Paul Ho from ASIAA ): “A new galaxy group finding algorithm: probability friend-of friend”
- 2006-2007 Yu-Jen Tan (NTU, joint with Prof. Tzi-Hung Chiueh from NTU ): “Morphology distribution of red galaxies”

#### Undergraduate Student

- 2014- Chin-Hao Hsu (NTU)
- 2014- Ti-Lin Chou (NTU)

#### Summer Student

- 2014 Chin-Hao Hsu (ASIAA)
- 2011 Chuan-Chin Lai (ASIAA)
- 2010 Franz Kirsten (DAAD/NSC)

## **CONFERENCES & WORKSHOPS**

#### Oral Contributions

- Mar. 2018 Workshop on “Galaxy interactions and mergers across cosmic time” (Invited speaker, Sexten, Italy)
- Nov. 2017 Lorentz Center Workshop on Galaxy Quenching (Invited speaker, Leiden, Netherlands)
- Jul. 2017 APRIM 2017 (Taipei, Taiwan)
- Mar. 2017 East Asia ALMA Science Workshop (Invited speaker, Hsin-Chu, Taiwan)
- Nov. 2016 SDSS-IV/MaNGA Meeting (Shanghai, China)
- Jan. 2016 ASROC (Tai-Nan, Taiwan)
- Jan. 2016 PSROC (Kao-Hsung, Taiwan)
- Nov. 4-6, 2015 SDSS-IV/MaNGA mini-workshop on galaxy mergers (invited speaker; ASIAA, Taiwan)
- May 2015 ASROC meeting (I-Lan, Taiwan)
- Jun. 2014 Science Results from Pan-STARRS1 (Baltimore, USA)
- Jun. 2014 Cross-Strait Astrophysics Symposium (ASIAA, Taipei)
- Nov. 2013 PS1 Science Consortium meeting (NCU, Taiwan)
- Sep. 2013 Workshop on “Photometric Redshifts for Large Scale Surveys” (ASIAA, Taiwan)
- Nov. 2012 The 9th Symposium on Cosmology and Particle Astrophysics (Invited speaker; CosPA Symposium 2012, Taipei)
- Oct. 2011 Galaxy Mergers in an Evolving Universe (invited speaker; Hua-Lien, Taiwan)
- Jul. 2011 The 7th joint meeting of the Overseas Chinese Physics Association (OCPA7) (invited speaker; Kaohsiung, Taiwan)
- Nov. 2010 CFHT User's Meeting (ASIAA, Taipei)

Oct. 2010 8-th EAMA Symposium “East Asian Network of Astronomy: Research, Education, and Popularization” (Shanghai, China)  
Aug. 2010 PanSTARRS Consortium Meeting, Belfast, UK  
Jul. 2009 Galaxy Wars: Stellar Populations and Star Formation in Interacting Galaxies Conference (Keynote Speaker, Johnson City, US)  
Mar. 2009 East-Asian Core Observatory Association (EACOA) Meeting (ASIAA, Taipei)  
Dec. 2008 Taiwan-Japan Subaru-HSC Science/Survey Mini Workshop (invited speaker; ASIAA, Taipei)  
Mar. 2008 Subaru-ASIAA Miniworkshop (ASIAA, Taipei)  
Jan. 2008 Subaru User's Meeting (NAOJ, Mitaka, Tokyo, Japan)  
Nov. 2007 International Symposium on Cosmology and Particle Astrophysics (CosPA 2007, NTU, Taipei)  
Aug. 2007 Santa Cruz Galaxy Formation Workshop (UC Santa Cruz, August 20 – 24)  
Mar. 2006 Subaru East Asia Youth Seminar 2006 (Kona, Hawaii)  
Aug. 2004 Santa Cruz Galaxy Formation Workshop (UC Santa Cruz)

#### Poster Contributions

Aug. 2015 IAU Symposium 319-Galaxies at high redshift and their evolution over cosmic time (Honolulu, US)  
Jun. 2010 CL J2010+0628: from Massive Galaxy Formation to Dark Energy Conference (Kashiwa, Japan)  
Mar. 2009 Galaxy Environment and Evolution Conference (Kuala Lumpur, Malaysia)  
Dec. 2007 Panoramic Views of Galaxy Formation and Evolution – The 1<sup>st</sup> Subaru International Conference (Hayama, Japan)  
Aug. 2005 Nearly Normal Galaxies in a Lambda CDM Universe (UC Santa Cruz, 8<sup>th</sup> ~ 12<sup>th</sup>)  
Mar. 2005 Future of Cosmology with Clusters (Waikoloa Beach Marriott Resort, Kona, Hawaii)

#### Others

Jul. 2008 Optical/NIR Data Reduction Mini-Workshop (invited lecturer, ASIAA, Taipei)  
May. 2008 Cosmology Far and Near: Sciences with WFMOS (Waikoloa, Hawaii)  
Apr. 2008 PanStarrs Science Consortium Meeting (Heidelberg, Germany)  
Jan. 2003 Carnegie Observatories Centennial Symposia : Clustering of Galaxies: Probes of Cosmological Structure and Galaxy Evolution (Pasadena, California, USA)  
Jun. 2002 International Symposium on Cosmology and Particle Astrophysics (Taipei)  
Feb. 2002 Annual Meeting of Chinese Society of Physics (Taipei)  
Sep. 2001 Cosmology and Particle Astrophysics Mini-Workshop (Taipei)  
Jun. 2001 The 8th Taipei Astrophysics Workshop – Amiba 2001: High-z Clusters, Missing Baryons, and CMB Polarization (Taipei)

#### **COLLOQUIUM, SEMINAR AND LUNCH TALKS**

Apr. 2018 Colloquium at Graduate Institute of Astronomy, National Tsing Hua University, Taiwan  
Apr. 2018 Seminar at Yuan Hua University, Taiwan  
Mar. 2018 Lunch talk at ASIAA, Taiwan  
Jul. 2017 Seminar talk at Subaru Telescope, Hilo, Hawaii, USA.  
Jan. 2017 Colloquium at Graduate Institute of Astronomy, National Central University, Taiwan  
Apr. 2015 Colloquium at National Cheng-Kung University, Taiwan  
Dec. 2015 Seminar of Astrophysics I, NTU, Taiwan  
Dec. 2014 Seminar of Astrophysics I, NTU, Taiwan

Dec. 2013 Seminar of Astrophysics I, NTU, Taiwan  
Dec. 2012 Seminar of Astrophysics I, NTU, Taiwan  
Jul. 2011 Lunch talk at ASIAA, Taiwan  
Dec. 2010 Colloquium at Nation Taiwan Normal University, Taiwan  
Nov. 2008 Colloquium at Institute of Astronomy, Tsing-Hua University, Taiwan  
Oct. 2008 Lunch talk at NOAO (National Optical Astronomical Observatory), USA  
May 2008 Lunch talk at ASIAA, Taiwan  
Nov. 2007 Colloquium at Graduate Institute of Astronomy, National Central University, Taiwan  
Oct. 2006 Seminar at Institute of Astronomy, Tsing-Hua University, Taiwan  
Oct. 2005 Lunch talk, at ASIAA, Taiwan  
May 2004 Lunch talk, at ASIAA, Taiwan

### **COMMUNITY SERVICES:**

- Journal referee of ApJ, MNRAS, A&A, CJP
- Science committee of the SDSS-IV/MaNGA project (2016-present)
- ALMA proposal review panel (2016-present)
- Chair of the SDSSIV/MaNGA galaxy merger working group (2014-present)
- TAC member of the China Telescope Access Program (TAP; 2011B)
- Council members of ASROC (2011-present)
- Editor of The Journal of Taipei Astronomical Museum (JTAM; 2010-2013)
- LOC member for the conference “The Life Cycle of Dust in the Universe: Observations, Theory, and Laboratory Experiments” Nov. 2013, ASIAA, Taipei, Taiwan.
- Organizing committee of the TIARA Winter School on High Redshift Galaxies, Feb. 2012, AISAA, Taipei, Taiwan
- SOC, LOC member for the conference “Galaxy Mergers in an Evolving Universe” Oct. 2011, Hualien, Taiwan.
- LOC member for the conference “2010 CFHT User's Meeting” Nov. 2010

### **INSTITUTE SERVICES**

Member of faculty search committee (2016-present)  
Coordinating galread journal club (2013-2014)  
Chair of the research manpower committee (2012-2014)  
Member of the research manpower committee (2010-2015)  
Member of the ombudsmen committee (2012-present)  
Chair of the colloquium committee (2011-2012)  
Member of the summer student committee (2010)

## LIST OF PUBLICATIONS

### *FIRST- and SECOND-AUTHOR REFEREED PUBLICATIONS*

17. Hsi-An Pan, **Lihwai Lin**, et al. **2018, ApJ, 854, 159**  
"SDSS IV MaNGA: Dependence of Global and Spatially Resolved SFR–M \* Relations on Galaxy Properties"  
<http://adsabs.harvard.edu/abs/2018ApJ...854..159P>
16. Hung-Yu Jian, **Lihwai Lin**, et al. **2018, PASJ, 70, 23** (HSC PASJ special issue)  
" First results on the cluster galaxy population from the Subaru Hyper Suprime-Cam survey. I. The role of group or cluster environment in star formation quenching from  $z = 0.2$  to  $1.1$ "  
<http://adsabs.harvard.edu/abs/2018PASJ...70S..23J>
15. B.-C. Hsieh, **Lihwai Lin**, et al., **2017, ApJL, 851, 24**  
"SDSS-IV MANGA: Spatially Resolved Star Formation Main Sequence and LI(N)ER Sequence"  
<http://adsabs.harvard.edu/abs/2017ApJ...851L..24H>
14. **Lihwai Lin**, Francesco Belfiore, Hsi-An Pan, M. S. Bothwell, Pei-Ying Hsieh et al., **2017, ApJ, 851, 18**  
"SDSS-IV MaNGA-resolved Star Formation and Molecular Gas Properties of Green Valley Galaxies: A First Look with ALMA and MaNGA" ,  
<http://adsabs.harvard.edu/abs/2017ApJ...851...18L>
13. **Lihwai Lin** , Jing-Hua Lin, Chin-Hao Hsu, et al., **2017, ApJ, 837, 32**  
"SDSS IV MaNGA: Discovery of an Ha blob associated with a dry galaxy pair -- ejected gas or a 'dark' galaxy candidate?"  
<http://adsabs.harvard.edu/abs/2017ApJ...837...32L>
12. Hung-Yu Jian, **Lihwai Lin**, Kai-Yang Lin, Sebastian Foucaud, et al. **2017, ApJ accepted.**  
"The Pan-STARRS1 Medium-Deep Survey: Star Formation Quenching in Group and Cluster Environments"  
<http://adsabs.harvard.edu/abs/2017ApJ...845...74J>
11. **Lihwai Lin**, P. Capak, C. Laigle , O. Ilbert, Bau-Ching Hsieh, Hung-Yu Jian, B. C. Lemaux, J. D. Silverman , Jean Coupon, H. J. McCracken, G. Hasinger , O. Le Fevre, N. Scoville, **2016, ApJ, 817, 97**,  
"The SPLASH survey: quiescent galaxies are more strongly clustered but are not necessarily located in high-density environments"  
<http://adsabs.harvard.edu/abs/2016ApJ...817...97L>
10. Chuan-Chin Lai, **Lihwai Lin**, Hung-Yu Jian, Tzi-Hong Chiueh, Alex Merson, Carlton M. Baugh, Sebastien Foucaud, Chin-Wei Chen , Wen-Ping Chen, **2016, ApJ, 825, 40**, "Can We the Color-Density Relation with Photometric Redshifts?"  
<http://adsabs.harvard.edu/abs/2016ApJ...825...40L>
9. **Lihwai Lin**, Hung-Yu Jian, Sebastien Foucaud, Peder Norberg, R. G. Bower, Shaun Cole, Pablo Arnalte-Mur, Chin-Wei Chen, Jean Coupon, Bau-Ching Hsieh, Sebastien Heinis, Stefanie



Phleps, Wen-Ping Chen, Chien-Hsiu Lee, William Burgett, K. C. Chambers, L. Denneau, P. Draper, [H. Flewelling](#), K. W. Hodapp, M. E. Huber, N. Kaiser, R.-P. Kudritzki, E. A. Magnier, N. Metcalfe, [Paul A. Price](#), J. L. Tonry, R. J. Wainscoat, C. Waters, **2014, ApJ**, 782, 33, “The Pan-STARRS1 Medium-Deep Survey: The Role of Galaxy Group Environment in the Star Formation Rate versus Stellar Mass Relation and Quiescent Fraction out to  $z \sim 0.8$ ” (16 ADS citations)  
<http://adsabs.harvard.edu/abs/2014ApJ...782...33L>

8. Jian, Hung-Yu; **Lin, Lihwai**; Chiueh, Tzihong; Lin, Kai-Yang; Liu, Hanyu Baobab; Merson, Alex; Baugh, Carlton; Huang, Jia-Sheng; Chen, Chin-Wei; Foucaud, Sebastien; Murphy, David N. A.; Cole, Shaun; Burgett, William; Kaiser, Nick **2014, ApJ**, 788, 109, “Probability Friends-of-Friends (PFOF) Group Finder: Performance Study and Observational Data Applications on Photometric Surveys” (12 ADS citations)  
<http://adsabs.harvard.edu/abs/2014ApJ...788..109J>

7. **Lin, Lihwai**; Dickinson, Mark; Jian, Hung-Yu; Merson, A. I.; Baugh, C. M.; Scott, Douglas; Foucaud, Sebastien; Wang, Wei-Hao et al. **2012, ApJ**, 756, 71, “Clustering Properties of BzK-selected Galaxies in GOODS-N: Environmental Quenching and Triggering of Star Formation at  $z \sim 2$ ” (36 ADS citations)  
<http://adsabs.harvard.edu/abs/2012ApJ...756...71L>

6. Jian, Hung-Yu; **Lin, Lihwai**; Chiueh, Tzihong, **2012, ApJ**, 754, 26, “Environmental Dependence of the Galaxy Merger Rate in a  $\Lambda$ CDM Universe” (18 ADS citations)  
<http://adsabs.harvard.edu/abs/2012ApJ...754...26J>

5. **Lin, Lihwai**; Cooper, Michael C.; Jian, Hung-Yu; Koo, David C.; Patton, David R.; Yan, Renbin; Willmer, Christopher N. A.; Coil, Alison L.; Chiueh, Tzihong; Croton, Darren J.; Gerke, Brian F.; Lotz, Jennifer; Guhathakurta, Puragra; Newman, Jeffrey A., **2010, ApJ**, 718, 1158, “Where do Wet, Dry, and Mixed Galaxy Mergers Occur? A Study of the Environments of Close Galaxy Pairs in the DEEP2 Galaxy Redshift” (47 ADS citations)  
<http://adsabs.harvard.edu/abs/2010ApJ...718.1158L>

4. **Lin, Lihwai**; Patton, David R.; Koo, David C.; Casteels, Kevin; Conselice, Christopher J.; Faber, S. M.; Lotz, Jennifer; Willmer, Christopher N. A.; Hsieh, B. C.; Chiueh, Tzihong; Newman, Jeffrey A.; Novak, Gregory S.; Weiner, Benjamin J.; Cooper, Michael C., **2008, ApJ**, 681, 232, “The redshift evolution of wet, dry, and mixed galaxy mergers from close galaxy pairs in the DEEP2 galaxy redshift survey” (142 ADS citations)  
<http://adsabs.harvard.edu/abs/2008ApJ...681..232L>

3. **Lin, Lihwai**; Koo, David C.; Weiner, Benjamin J.; Chiueh, Tzihong; Coil, Alison L.; Lotz, Jennifer; Conselice, Christopher J.; Wilner, S. P.; Smith, H. A.; Guhathakurta, Puragra; Huang, J.-S.; Le Floch, Emeric; Noeske, Kai G.; Willmer, C. N. A.; Cooper, M. C.; Phillips, A.C. **2007, ApJL**, 660, 51, “AEGIS: Enhancement of dust-enshrouded star formation in close galaxy pairs and merging galaxies up to  $z \sim 1$ ” (82 ADS citations)  
<http://adsabs.harvard.edu/abs/2007ApJ...660L..51L>

2. **Lin, Lihwai**; Patton, David R.; Koo, David C.; Willmer, Christopher N. A.; Patton, David R.; Conselice, Christopher J.; Yan, Renbin; Coil, Alison L.; Cooper, Michael C.; Davis, Marc; Faber, S. M.; Gerke, B. F.; Guhathakurta, Puragra; Newman, Jeffrey A. **2004, ApJL**, 617, 9, “The DEEP2 galaxy redshift survey: evolution of close galaxy pairs and major-merger rates up to  $z=1.2$ ”

<http://adsabs.harvard.edu/abs/2004ApJ...617L...9L> (173 ADS citations)

1. **Lin, Lihwai**; Chiueh, Tzihong; Lee, Jounghun **2002, ApJ**, 574, 527, “Bias and conditional mass function of dark halos based on the nonspherical collapse model”

<http://adsabs.harvard.edu/abs/2002ApJ...581..794C> (7 ADS citations)

### **OTHER CO-AUTHORED REFEREED PUBLICATIONS**

54. Bela Abolfathi, .....**Lihwai Lin** et al. **2018, ApJS**, 235, 42

“The Fourteenth Data Release of the Sloan Digital Sky Survey: First Spectroscopic Data from the Extended Baryon Oscillation Spectroscopic Survey and from the Second Phase of the Apache Point Observatory Galactic Evolution Experiment”

<http://adsabs.harvard.edu/abs/2018ApJS..235...42A>

53. Hai Fu, Joshua L. Steffen,...**Lihwai Lin** et al. **2018, ApJ**, 856, 93

“SDSS-IV MaNGA: Galaxy Pair Fraction and Correlated Active Galactic Nuclei”

<http://adsabs.harvard.edu/abs/2018ApJ...856...93F>

52. Belfiore, Francesco; Maiolino, Roberto; **Lihwai Lin** et al. **2018, MNRAS**, in press

“SDSS IV MaNGA - sSFR profiles and the slow quenching of discs in green valley galaxies”

<http://adsabs.harvard.edu/doi/10.1093/mnras/sty768>

51. A. Nishizawa, M. Oguri, ...**Lihwai Lin** et al. **2018, PASJ**, 70, 24

“First Results on the Cluster Galaxy Population from the Subaru Hyper Suprime-Cam Survey. II. Faint end Color-Magnitude Diagrams and Radial Profiles of Red and Blue Galaxies at  $0.1 < z < 1.1$ ”

<http://adsabs.harvard.edu/abs/2018PASJ...70S..24N>

50. Yusei Koyama, Masao Hayashi,.....**Lihwai Lin** et al. **2018, PASJ**, 70, 21

“The nature of  $H\alpha$ -selected galaxies along the large-scale structure at  $z=0.4$  revealed by Subaru Hyper Suprime-Cam survey”

<http://adsabs.harvard.edu/abs/2018PASJ...70S..21K>

49. Oguri M; Lin Y-T; Lin S-C; ...**Lin, Lihwai** et al. **2018, PASJ**, 70, 20

“An optically-selected cluster catalog at redshift  $0.1 < z < 1.1$  from the Hyper Suprime-Cam Subaru Strategic Program S16A data”

<http://adsabs.harvard.edu/abs/2018PASJ...70S..20O>

48. Ono Y; Ouchi M; Harikane Y; ...; **Lin L**; ...et al. **2018, PASJ**, 70, 10

“Great Optically Luminous Dropout Research Using Subaru HSC (GOLDRUSH). I. UV luminosity functions at  $z \sim 4-7$  derived with the half-million dropouts on the 100 deg<sup>2</sup> sky”

<http://adsabs.harvard.edu/abs/2018PASJ...70S..10O>

47. Aihara H; Armstrong R; Bickerton S; ...**Lin Lihwai** et al. **2018, PASJ**, 70, 8

“First Data Release of the Hyper Suprime-Cam Subaru Strategic Program”

<http://adsabs.harvard.edu/abs/2018PASJ...70S...8A>

46. H. Aihara, N. Arimoto,....**Lihwai Lin** et al. **2018, PASJ**, 70, 4  
“The Hyper Suprime-Cam SSP Survey: Overview and Survey Design”  
<http://adsabs.harvard.edu/abs/2018PASJ...70S...4A>
45. Yen-Ting Lin, Bau-Ching Hsieh,.....**Lihwai Lin** et al. **2017, ApJ**, 851, 139  
“First results on the cluster galaxy population from the Subaru Hyper Suprime-Cam survey. III. Brightest cluster galaxies, stellar mass distribution, and active galaxies”  
<http://adsabs.harvard.edu/abs/2017ApJ...851..139L>
44. J. E. Geach, Y-T. Lin, ....**Lihwai Lin** et al. **2017, ApJS**, 231, 7  
“VICS82: the VISTA-CFHT Stripe 82 near-infrared survey”  
<http://adsabs.harvard.edu/abs/2017ApJS..231....7G>
43. Michael R. Blanton, Matthew A. Bershadsky,.....**Lihwai Lin** et al. **2017, AJ**, 15, 28  
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