

Curriculum Vitae

Lihwai Lin (林俐暉)

CONTACT INFORMATION:

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POSITIONS:

Mar. 2021 – present

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

Jan. 2016 – Mar. 2021

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)

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 PhD student to study abroad (國科會千里馬 Taiwan)
2004 Wu Chien-Shiung Scholarship(吳健雄獎學金 Taiwan)

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 star formation
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

[4] Star Formation and Quenching
The Connection between Molecular Gas and Star Formation in Galaxies
Environmental Effect on Galaxy Evolution

LARGE INTERNATIONAL RESEARCH PROJECTS PARTICIPATED:

[8] **ALMaQUEST (ALMA-MaNGA QUEnching and Star formation) Survey**
A joint ALMA-MaNGA program to probe the connection between star formation and cold molecular gas
<http://arc.phys.uvic.ca/~almaquest/>

[7] **JINGLE Survey**
A JCMT Large Program designed to systematically study the cold ISM of galaxies in the local Universe
<https://www.eobservatory.org/jcmt/science/large-programs/jingle/>

[6] **SDSS-IV/MaNGA Survey**
An optical IFU survey for 10K nearby galaxies to understand the life circle of galaxies
<http://www.sdss.org/manga>

[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 108-2628-M-001 -001 -MY3, 2019/08/01 ~ 2022/07/31 (優秀年輕學者計畫)
MOST research grant MOST 107-2119-M-001-024 -, 2018/08/01 ~ 2019/07/31
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:

2019 **Lin et al.** “Why star formation is suppressed in green valley galaxies?”
(ALMA Cycle 7; 25.8 hrs)
2018 **Lin et al.** “The role of molecular gas in quenching star formation of green valley galaxies”
(ALMA Cycle 6; 22.4 hrs)
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

- 2021-present Carlos Alberto Lopez Coba
 2017-2019 Hsi-An Pan
 2016-2020 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

- 2014-2015 Chuan-Chin Lai (ASIAA)

Graduate Student

- 2018-present Yung-Chau Su (NTU)
 2019-present Chin-Hao Hsu (NTU)
 (2015-2016)
 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 ~ 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

- 2014-2015 Chin-Hao Hsu (NTU)
 2014-2015 Ti-Lin Chou (NTU)

Summer Student

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

CONFERENCES & WORKSHOPS

Oral Presentations

- Mar. 2021 Lorentz Workshop-Galaxy merger ([Invited Speaker](#), virtual conference hosted by the Lorentz Center, Netherlands)
- Sep. 2020 The Epoch of Galaxy Quenching ([Invited speaker](#), virtual conference held by Kavli Institute for Cosmology, Cambridge, UK)
- Feb. 2020 EA-ALMA Science workshop (ASIAA, Taiwan)
- Dec. 2019 Galaxy Formation and Evolution Across Cosmic Time ([Invited speaker](#), ASIAA, Taiwan)
- Nov. 2019 JCMT Users Meeting (ASIAA, Taiwan)
- Apr. 2019 SDSS-IV/MaNGA Meeting (Oxford, UK)
- Mar. 2019 Extremely Big Eyes on the Early Universe ([Invited speaker](#), IPMU, Japan)
- Jan. 2019 EAO Subaru Science Workshop 2019 ([Keynote speaker](#), KASI, Korea)
- Nov. 2018 IAU Symposium 341: PanModel2018 : Challenges in Panchromatic Galaxy Modelling with Next Generation Facilities (Osaka, Japan)
- 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)

- Jul. 2008 Optical/NIR Data Reduction Mini-Workshop ([Invited lecturer](#), 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 Presentations

- 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 1st Subaru International Conference (Hayama, Japan)
- Aug. 2005 Nearly Normal Galaxies in a Lambda CDM Universe (UC Santa Cruz, 8th ~ 12th)
- Mar. 2005 Future of Cosmology with Clusters (Waikoloa Beach Marriott Resort, Kona, Hawaii)

COLLOQUIUM, SEMINAR AND LUNCH TALKS

- Nov. 2021 Colloquium at National Chung Hsing University, Taichung, Taiwan
- Nov. 2021 Colloquium at Tsinghua University, Beijing, China (online talk)
- May. 2021 Lecture at Yuan-Zi University, Taoyuan, Taiwan
- Apr. 2018 Colloquium at Graduate Institute of Astronomy, National Tsing Hua University, Taiwan
- Apr. 2018 Seminar at Yuan Ze 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 National Taiwan Normal University, Taiwan
- Nov. 2008 Colloquium at Institute of Astronomy, National 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, National Tsing-Hua University, Taiwan
- Oct. 2005 Lunch talk, at ASIAA, Taiwan
- May 2004 Lunch talk, at ASIAA, Taiwan

COMMUNITY SERVICES:

- 2006-pres. ApJ, MNRAS, A&A, AJ, PASJ, CJP, journal referee

- 2016-pres. SDSS-IV/MaNGA Science committee, member (2016-present)
- 2016-2018. ALMA proposal review, panel member
- 2014-pres. SDSSIV/MaNGA galaxy merger working group, chair
- 2011B China Telescope Access Program (TAP), TAC member
- 2011-pres. ASROC, Council member
- 2010-2013 The Journal of Taipei Astronomical Museum (JTAM), editor
- 2013 Nov. "The Life Cycle of Dust in the Universe: Observations, Theory, and Laboratory Experiments" Conference, LOC member
- 2012 Feb. TIARA Winter School on High Redshift Galaxies, SOC member
- 2011 Oct "Galaxy Mergers in an Evolving Universe" Conference, SOC and LOC member
- 2010 Nov. 2010 CFHT User's Meeting, LOC member

INSTITUTE SERVICES

- 2021-pres. Project evaluation committee, **chair** (21A-)
- 2021-pres. Management committee, observer (21A-)
- 2019-pres. CFHT-Taiwan TAC, **chair** (20A-21B)
- 2019-pres. CFHT-Taiwan TAC, member (19B-21B)
- 2016-pres. Faculty search committee, member
- 2014-pres. Project evaluation committee, member
- 2013-2014 galread journal club, **coordinator**
- 2012-2014 Research manpower committee, **chair**
- 2010-2015 Research manpower committee, member
- 2012-pres. Ombudsmen committee, member
- 2011-2012 Colloquium committee, **chair**
- 2010 Summer student committee, member

LIST OF PUBLICATIONS

*Students and postdocs supervised by Lihwai Lin are marked with **

FIRST- and SECOND-AUTHOR REFEREED PUBLICATIONS

- 28. **Lihwai Lin**, Sara L. Ellison, Hsi-An Pan et al. , "ALMaQUEST - VII: Star Formation Scaling Relations of Green Valley Galaxies", 2021, ApJ submitted
- 27. Sara L. Ellison, **Lihwai Lin**, Mallory D. Thorp et al. "The ALMaQUEST survey – VI. The molecular gas main sequence of ‘retired’ regions in galaxies", 2021, MNRAS Letters, 502, L6
- 26. Sara L. Ellison, **Lihwai Lin**, Mallory D. Thorp et al. "The ALMaQUEST Survey: V. The non-universality of kpc-scale star formation relations and the factors that drive them", 2021, MNRAS, 501, 4777
- 25. **Lihwai Lin**, Sara L. Ellison, Hsi-An Pan et al. , "ALMaQUEST - IV. The ALMA-MaNGA QUEnching and STar formation (ALMaQUEST) Survey", **ApJ**, 2020, 903, 145
- 24. Hsi-An Pan*, **Lihwai Lin**, Bau-Ching Hsieh, et al., "SDSS-IV MaNGA: The Nature of an Off-galaxy

galaxy H α Blob -- A Multi-wavelength View of Offset Cooling in a Merging Galaxy Group", 2020, **ApJ**, 903, 16

23. Hung-Yu Jian*, **Lihwai Lin**, Yusei Koyama, Ichi Tanaka, Keiichi Umetsu, Bau-Ching Hsieh, Yuichi Higuchi, Masamune Oguri Surhud More, Yutaka Komiyama, Tadayuki Kodama, Atsushi J. Nishizawa, and Yu-Yen Chang, "Redshift Evolution of Green Valley Galaxies in Different Environments from the Hyper Suprime-Cam Survey" , **ApJ**, 2020, 894, 125
<https://ui.adsabs.harvard.edu/abs/2020ApJ...894..125J/abstract>

22. **Lihwai Lin**, Hsi-An Pan*, Sara L. Ellison, Francesco Belfiore, Yong Shi, Sebastián F. Sánchez, Bau-Ching Hsieh, Kate Rowlands, S. Ramya, Mallory D. Thorp, Cheng Li, Roberto Maiolino, "The ALMaQUEST Survey: The molecular gas main sequence and the origin of the star forming main sequence" , **ApJL**: 884(2), L33, 2019-10
<https://ui.adsabs.harvard.edu/abs/2019ApJ...884L..33L/abstract>

21. Hsi-An Pan*, **Lihwai Lin**, Bau-Ching Hsieh et al., "SDSS-IV MaNGA: Spatial Evolution of Star Formation Triggered by Galaxy Interactions" , **ApJ**: 881(2), 119, 2019-08
<https://ui.adsabs.harvard.edu/abs/2019ApJ...881..119P/abstract>

20. Li-Ting Hsu*, **Lihwai Lin**, Mark Dickinson et al., "Near-Infrared Survey and Photometric Redshifts in the Extended GOODS-North Field" , **ApJ**: 871, 233, 2019-02
<https://ui.adsabs.harvard.edu/abs/2019ApJ...871..233H/abstract>

19. **Lihwai Lin**, Bau-Ching Hsieh, Hsi-An Pan*, Sandro B. Rembold, Sebastián F. Sánchez, Maria Argudo-Fernández, Kate Rowlands, Francesco Belfiore, Dmitry Bizyaev, Ivan Lacerna, Rogério Riffel, Yu Rong, Fangting Yuan, Niv Drory, Roberto Maiolino, Eric Wilcots, "SDSS-IV MANGA: INSIDE-OUT VS. OUTSIDE-IN QUENCHING IN DIFFERENT LOCAL ENVIRONMENTS" , **ApJ**: 872, 50, 2019-02
<https://ui.adsabs.harvard.edu/abs/2019ApJ...872...50L/abstract>

18. Hsi-An Pan*, **Lihwai Lin**, Bau-Ching Hsieh, Ting Xiao, Yang Gao, Sara L. Ellison, Jillian M. Scudder, Jorge Barrera-Ballesteros, Fangting Yuan, Amélie Saintonge, Christine D. Wilson, Ho Seong Hwang, Ilse De Looze, Yu Gao, Luis C. Ho, Elias Brinks, Angus Mok, Toby Brown, Timothy A. Davis, Thomas G. Williams, Aeree Chung, Harriet Parsons, Martin Bureau, Mark T. Sargent, Eun Jung Chung, Eunbin Kim, Tie Liu, Michał J. Michałowski, Tomoka Tosaki, "The Effect of Galaxy Interactions on Molecular Gas Properties" , **ApJ**: 868(2) 132, 2018-12
<https://ui.adsabs.harvard.edu/abs/2018ApJ...868..132P/abstract>

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 $z \sim 0.8$ "
<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"
<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 Λ CDM Universe ”

<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>

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