

## Yen-Ting Lin

---

CONTACT INFORMATION	Institute of Astronomy and Astrophysics Academia Sinica 11F, Astronomy–Mathematics Building No. 1, Sec. 4, Roosevelt Road Taipei, Taiwan 10617 <a href="https://sites.google.com/view/ytl-site">https://sites.google.com/view/ytl-site</a> <a href="mailto:ytl@asiaa.sinica.edu.tw">ytl@asiaa.sinica.edu.tw</a> phone: +886-2-2366-5443 ORCID: 0000-0001-7146-4687 Web of Science ResearcherID: ABC-4256-2020 Personal ADS library: <a href="http://tinyurl.com/42xaz9m9">http://tinyurl.com/42xaz9m9</a> Google Scholars: <a href="https://tinyurl.com/5d2w62cu">https://tinyurl.com/5d2w62cu</a>
EDUCATION	Ph.D., Astronomy, University of Illinois at Urbana-Champaign      August 2005 Advisor: Prof. Joseph J. Mohr Thesis: <i>Fundamental Properties of Galaxy Clusters: a Prelude to Large Scale Sunyaev-Zel'dovich Effect/Near-IR Cluster Surveys</i>  B.Sc., Physics, National Taiwan University      May 1999
RESEARCH INTERESTS	<b>Observational Cosmology:</b> halo assembly bias; cosmology with distant galaxy clusters <b>Galaxy Clusters:</b> formation and evolution; Sunyaev-Zel'dovich effect; galaxy population evolution; intracluster medium enrichment and heating; cluster surveys; brightest cluster galaxies and intracluster light <b>Galaxies:</b> formation and evolution; interactions and mergers; radio galaxies; halo model and subhalo abundance matching technique; galaxy assembly bias and galactic conformity; initial mass function
POSITIONS	Joint Appointment with the rank of Associate Professor, Institute of Astrophysics, National Taiwan University (NTU)      2021-2022 Joint Appointment with the rank of Associate Professor, Department of Physics, NTU      2018, 2020 Special Visiting Professor, Observatório Nacional, Rio de Janeiro      2016, 2017 Associate Research Fellow with tenure, Institute of Astronomy and Astrophysics, Academia Sinica (ASIAA)      2015-present Assistant Research Fellow, ASIAA      2010-2015 Scientific Associate, Institute for the Physics and Mathematics of the Universe (IPMU), The University of Tokyo      2010-2011 Distinguished Postdoctoral Fellow, IPMU      2008-2010 Princeton-Católica Postdoctoral Fellow      2005-2008 (Joint appointment between Princeton University and Pontificia Universidad Católica de Chile)
RESEARCH EXPERIENCE AND LARGE COLLABORATIONS INVOLVED	Legacy Survey of Space and Time of Vera C. Rubin Observatory      2018-present Sloan Digital Sky Survey-IV      2014-2021 Subaru Prime Focus Spectrograph Subaru Strategic Program (PFS-SSP)      2011-present Subaru Hyper Suprime-Cam Subaru Strategic Program (HSC-SSP)      2008-present Sloan Digital Sky Survey-III      2008-2011 Atacama Cosmology Telescope      2006-2013 Summer Student, Hat Creek Radio Observatory, University of California, Berkeley      2002 Graduate Research Assistant, University of Illinois at Urbana-Champaign      2001-2005 Graduate Teaching Assistant, University of Illinois at Urbana-Champaign      1999-2001 Summer Student, ASIAA      1998

HONORS AND AWARDS	Top 1% cited author award (greater China region), Institute of Physics (IOP) Publishing	2019
	Career Development Award, Academia Sinica (AS-CDA-106-M01)	2017-2021
	Paper <i>Lin et al. (2017, ApJ, 851, 139)</i> selected as a Representative Paper from Academia Sinica	2017
	Paper <i>Lin et al. (2016, ApJ, 819, 119)</i> selected as a Representative Paper from Academia Sinica	2016
	Distinguished Postdoctoral Fellowship, IPMU	2008-2013
	Princeton-Católica Fellowship	2005-2008
	National Taiwan University: President Awards	1995,1996,1998
OBSERVING EXPERIENCE	<b>Optical/IR:</b> Subaru (SuprimeCam, MOIRCS, FOCAS); Gemini (GMOS, GNIRS); Magellan (LDSS3, IMACS); MMT (Binospec, Flamingos, Hectospec); KPNO 4m (Flamingos, NEWFIRM); CTIO 4m (ISPI, Mosaic II); CFHT 3.6m (MegaCam, WIRCcam); APO 3.5m (DIS, NIC-FPS, Spicam); DuPont 2.5m (WIRC); KPNO 2.1m (Flamingos, CCD Imager)	
	<b>Radio/Submillimeter:</b> Very Large Array (VLA); Caltech Submillimeter Observatory (Heterodyne system); Green Bank Telescope (MUSTANG-2); Atacama Large Millimeter/submillimeter Array (ALMA Band 3)	
PROFESSIONAL SERVICES	SOC, Space Telescope Science Institute (STScI) Spring Symposium “Galaxy Clusters 2022: challenging our cosmological perspectives”	2021-2022
	External panel member, Hubble Cycles 29 & 30 proposal review	2021-2022
	Panelist, Oral Examination Committee for the Ministry of Education Scholarship for Overseas Study	2021
	SOC, East-Asian Galaxy Formation Workshop	2019-2021
	Main organizer, ASIAA/Subaru Telescope Workshop “Panchromatic Panoramic Studies of Galaxy Clusters: from HSC to PFS and ULTIMATE”	2019
	SOC, Large Synoptic Survey Telescope (LSST)@Asia Conference	2019
	SOC, 2019 East-Asian AGN workshop	2019
	Main organizer, Theoretical Institute for Advanced Research in Astrophysics (TIARA) Summer School on Astro-Statistics and Big Data	2017
	SOC, 2016 CFHT Users’ Meeting	2016
	Organizing committee, Subaru HSC Survey Collaboration Meeting at ASIAA	2016
	Chair, CFHT-Taiwan Time Allocation Committee (TAC)	2015-2017
	Organizing committee, ASIAA/SDSS-IV/MaNGA Workshop on Galaxy Mergers	2015
	Organizing committee, TIARA Workshop on Cosmology	2014
	Organizing committee, ASIAA/NTU Symposium “New Era of Cosmology: Inflationary Cosmology after BICEP2”	2014
	Organizing committee, ASIAA Workshop “Optical and infrared astronomy in Taiwan: now and future”	2014
	Member, CFHT-Taiwan Time Allocation Committee	2014-2017
	Organizing committee, TIARA Winter School on High Redshift Galaxies	2012
	Member, ngCFHT Science Working Group “Nearby galaxies and clusters”	2011-2012
	LOC, DENET Subaru HSC Workshop at ASIAA	2011
	Co-chair, HSC Science Working Group “Galaxy clusters”	2010-2017
	Chair of SOC and LOC, IPMU/DENET International Conference “ <i>CL J2010: from Massive Galaxy Formation to Dark Energy</i> ”	2010
	LOC, IPMU International Conference “ <i>dark energy: lighting up the darkness!</i> ”	2009
	Referee for CFHT, Subaru, and Gemini observing proposals	2007,2012,2013,2015,2018,2019,2020,2021
Referee for ApJ, ApJL, MNRAS, A&A, Chinese Journal of Physics	2005-present	
PROFESSIONAL SOCIETIES	Physical Society of Taiwan	2016-present
	International Astronomical Union (IAU)	2012-present
	Astronomical Society of Republic of China (ASROC)	2012-present
	American Astronomical Society (AAS)	1999-present
COMPUTER SKILLS	Languages: C, python, shell scripting, SQL, HTML Applications: SM, Mathematica, IDL, L <sup>A</sup> T <sub>E</sub> X, IRAF/PyRAF Operating Systems: Linux/Unix, macOS	

TEACHING  
EXPERIENCE

Phys7042, NTU: “Galaxy formation and evolution” (spring 2013, spring 2014, spring 2016: co-taught with Wei-Hao Wang and Tzu-Ching Chang; spring 2018, spring 2020: co-taught with Wei-Hao Wang)

AsPhys7023, NTU: “Special Topics on Galaxy formation and evolution” (spring 2022: co-taught with Wei-Hao Wang)

COLLOQUIA AND  
SEMINARS  
(INVITED)

Colloquium, Graduate Institute of Astronomy, National Central University, Jhongli, Taiwan, Dec. 2022

Colloquium, Department of Astronomy, Shanghai Jiao Tong University, Shanghai, China, Nov. 2022

Colloquium, Institute of Astronomy, National Tsing Hua University, Hsinchu, Taiwan, Dec. 2021

Seminar, Max Planck Institute for Astronomy, Heidelberg, Germany, Jul. 2018

Colloquium, Graduate Institute of Astronomy, National Central University, Jhongli, Taiwan, Apr. 2017

Colloquium, Institute of Statistical Sciences, Academia Sinica, Taipei, Taiwan, Mar. 2017

Seminar, Leung Center for Cosmology and Particle Astrophysics, National Taiwan University, Taipei, Taiwan, Dec. 2016

Colloquium, Institute of Astronomy, Geophysics, and Atmospheric Sciences, University of São Paulo, Brazil, Nov. 2016

Colloquium, Observatório Nacional, Rio de Janeiro, Brazil, Nov. 2016

Seminar, Department of Physics, Nagoya University, Nagoya, Japan, Apr. 2016

Seminar, Department of Physics, The University of Tokyo, Tokyo, Japan, Apr. 2016

Seminar, National Center for Theoretical Sciences, Physics Division, National Tsing Hua University, Hsinchu, Taiwan, Mar. 2016

Seminar, Institute of Communications Engineering, National Tsing Hua University, Hsinchu, Taiwan, May 2015

Colloquium, Department of Physics, National Sun Yat-Sen University, Kaohsiung, Taiwan, May 2015

Seminar, Department of Physics, National Taiwan University, Taipei, Taiwan, Nov. 2014

Seminar, National Astronomical Observatory of China, Beijing, China, Oct. 2014

Seminar, Shanghai Astronomical Observatory, Shanghai, China, Oct. 2014

Seminar, Department of Physics, National Taiwan Normal University, Taipei, Taiwan, Mar. 2014

Seminar, Department of Physics, National Taiwan University, Taipei, Taiwan, Dec. 2013

Seminar, Department of Physics, National Taiwan University, Taipei, Taiwan, Dec. 2012

Colloquium, Department of Physics, National Taiwan Normal University, Taipei, Taiwan, Nov. 2012

Colloquium, Graduate Institute of Astronomy, National Central University, Jhongli, Taiwan, Dec. 2011

*GCOE* seminar, Department of Physics, Nagoya University, Nagoya, Japan, Jan. 2011

*OPINAS* seminar, Max-Planck-Institut für extraterrestrische Physik (MPE), Garching, Germany, Sep. 2010

*Galshop* seminar, NAOJ, Mitaka, Japan, Apr. 2010

Colloquium, Department of Astronomy, Yonsei University, Seoul, Korea, Mar. 2010

Colloquium, Department of Physics and Astronomy, Seoul National University, Seoul, Korea, Mar. 2010

Colloquium, Department of Physics, National Taiwan University, Taipei, Taiwan, Sep. 2009

Colloquium, Institute of Astronomy, National Tsing Hua University, Hsinchu, Taiwan, Sep. 2009

Seminar, Astrophysics and Space Research Group, University of Birmingham, Birmingham, UK, May 2009

Cosmology seminar, Astrophysics, University of Oxford, Oxford, UK, May 2009

Colloquium, Department of Astronomy, University of Illinois at Urbana-Champaign, Urbana, IL, USA, Oct. 2008

Seminar, Institute for the Physics and Mathematics of the Universe, Kashiwa, Japan, Apr. 2008

Colloquium, Physics Department, National Taiwan University, Taipei, Taiwan, Mar. 2008  
Lunch talk, Institute of Astronomy, National Tsing Hua University, Hsinchu, Taiwan, Mar. 2008  
*Flash* talk, NOAO, Tucson, AZ, USA, Feb. 2008  
Cosmology seminar, Department of Astronomy, UC Berkeley, Berkeley, CA, USA, Dec. 2007

CONFERENCE AND  
WORKSHOP:  
INVITED TALKS

Invited talk, 2022 STScI Spring Symposium “Galaxy Clusters 2022: Challenging Our Cosmological Perspectives”, virtual, Apr. 2022  
Keynote talk, 8th Galaxy Evolution Workshop, virtual, Feb. 2022  
Invited talk, NEP conference 2020 “Multi-Wavelength Astronomy Collaboration towards the New Era with Deep Survey Data”, Taipei, Taiwan, Nov. 2020  
Invited talk, Shanghai Jiao Tung University workshop “Halo and Galaxy Assembly Bias: from Theory to Observation”, Shanghai, China, Jun. 2019  
Invited talk, Subaru-EAO workshop on High- $z$  Galaxies, Mitaka, Japan, Jan. 2019  
Invited talk, International Center for Theoretical Sciences workshop “Cosmology – the Next Decade”, Bangalore, India, Jan. 2019  
Invited talk, “EAO Subaru Science Workshop”, Korean Astronomy and Space Science Institute, Kaejeon, Jan. 2019 (canceled due to health reasons)  
Invited talk, 8th Korean Institute for Advanced Study Cosmology workshop, Seoul, South Korea, Nov. 2018  
Invited talk, Ringberg workshop “Galaxy Evolution in Groups and Clusters at *low* Redshift: Theory and Observations”, Munich, Germany, Dec. 2017  
Invited talk, KITP conference “Understanding and quantifying the galaxy-halo connection”, Santa Barbara, CA, USA, May 2017  
Invited talk, Subaru International Partnership Science and Instrumentation workshop, Mitaka, Japan, Mar. 2017  
Invited talk, Sexten Center for Astrophysics workshop “The remarkable life of a BCG”, Sesto, Italy, Feb. 2017  
Invited talk, Special Session “Science with the HSC Survey”, 229th AAS Meeting, Grapevine, TX, USA, Jan. 2017  
Invited review, NAOJ workshop on proto-clusters, Mitaka, Japan, Apr. 2016  
Invited talk, HSC/Hiroshima CORE-U joint workshop, Hiroshima, Japan, Aug. 2014  
Invited review, 7th France-Taiwan Frontiers of Science Symposium, Tamsui, Taiwan, Jun. 2014  
Invited review, Preparatory meeting for France-Taiwan Frontiers of Science Symposium, Tamsui, Taiwan, Mar. 2014  
Invited parallel talk, 19th International Symposium on Particles, String, and Cosmology, Taipei, Taiwan, Nov. 2013  
Invited review, Sexten Center for Astrophysics conference “Tracing Cosmic Evolution with Clusters of Galaxies”, Sesto, Italy, Jul. 2013  
Invited talk, 9th CosPA symposium, National Taiwan University, Taipei, Taiwan, Nov. 2012  
Invited talk, OCPA7 conference, National Sun Yat-Sen University, Kaohsiung, Taiwan, Aug. 2011  
Lectures on galaxy formation, TIARA winter school, National Tsing Hua University, Hsinchu, Taiwan, Jan. 2010  
Invited talk, Perimeter Institute workshop “Sunyaev-Zeldovich Universe and the Future of Cluster Cosmology”, Waterloo, ON, Canada, Apr. 2009

**PUBLIC OUTREACH** Advisor for Taipei First Girls' High School student science fair; Nov. 2018 to Apr. 2019  
Invited public talk on "Co-evolution of supermassive black holes and galaxies", Tainan First Senior High School; Nov. 2016  
Invited public talk on "Co-evolution of supermassive black holes and galaxies", Kaohsiung Medical University; Dec. 2015  
Invited public talk on "Co-evolution of supermassive black holes and galaxies", National Taiwan University/Ministry of Science and Technology "Prospect" Lecture Series; May 2014  
ASIAA open house, oral presentation (describing extragalactic and cosmological studies at ASIAA); Mar. 2014  
Lecture on "AGN and galaxy evolution" given to high school astronomy club students, Taipei First Girls' High School; Dec. 2013  
Lecture on "using SDSS to explore the universe" given to high school teachers, Taipei First Girls' High School "High Scope" project; Oct. 2013  
Advisor for Taipei First Girls' High School student term project; Apr. 2013 to Jun. 2014  
ASIAA open house, oral presentation (describing extragalactic studies at ASIAA); Nov. 2012  
"Star Party", invited public talk on "the dark side: dark matter, dark energy, and the future of the universe"; Nov. 2012  
Academia Sinica open house, invited public talk on "the dark side: dark matter, dark energy, and the future of the universe"; Oct. 2012  
TV interview for program "hotline", Taiwan Television Enterprise; Dec. 2011 and Jul. 2012  
National Taiwan Normal University, invited public talk on "the dark side of the universe – dark matter and dark energy"; Dec. 2011  
ASIAA open house, oral presentation (describing galaxy formation/evolution studies at ASIAA); Dec. 2011  
IPMU "ask a scientist vol. 12": short video explaining baryon acoustic oscillation; Feb. 2011

**REFERENCES**

**Dr. David N. Spergel**

Simons Foundation  
(+1-609) 258-3589; dns@astro.princeton.edu

**Prof. Michael A. Strauss**

Department of Astrophysical Sciences, Princeton University  
(+1-609) 258-3808; strauss@astro.princeton.edu

**Prof. Andrey V. Kravtsov**

Department of Astronomy and Astrophysics, The University of Chicago  
(+1-773) 702-4249; andrey@oddjob.uchicago.edu

**Prof. Anthony H. Gonzalez**

Department of Astronomy, University of Florida  
(+1-352) 294-1845; anthonyhg@ufl.edu

**Prof. Joseph J. Mohr**

Universität-Sternwarte München  
(+49-89) 2180-5967; Joseph.Mohr@physik.lmu.de