Yu-Yen Chang | Curriculum Vitae

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Research

• Assistant Professor, Physics Department, NCHU, Taiwan	2020-present
Postdoctoral Fellow, ASIAA, Taiwan Administra Da Mai Han Managand Da Librari Lin	2016-2020
Advisor: Dr. Wei-Hao Wang and Dr. Lihwai Lin • Postdoctoral Fellow, CEA-Saclay, France Advisor: Dr. Emeric Le Floc'h	2014-2016
 Postdoctoral Fellow, Max Planck Institute for Astronomy, Germany Advisors: Prof. Dr. Hans-Walter Rix and Prof. Dr. Arjen van der Wel 	2014
 ASIAA Summer Student Program, ASIAA, Taiwan Supervisor: Dr. Patrick Koch 	2007
Education	
• Ph.D.: Astronomy International Max Planck Research School for Astronomy and Cosmic Physics at the University of Heidelberg, Germany Thesis: Galaxy Shapes through Cosmic Time —	2013
 Intrinsic Structure of Early-type Galaxies at High Redshift Supervisors: Prof. Dr. Hans-Walter Rix and Prof. Dr. Arjen van der Wel M.S.: Physics National Taiwan University, Taiwan Thesis: The Correlation between Global Parameters of Galaxies and its Implications on the Role of Dark Matter in Structure Formation 	2010
 Supervisors: Prof. Dr. Pisin Chen and Dr. Wei-Hao Wang M.S.: Radio Astronomy and Space Science Chalmers University of Technology, Sweden Thesis: The Influence of Large-Scale Filaments on Cluster SZE Observations and on some Cosmological Parameters Supervisor: Dr. Patrick Koch / Examiner: Prof. Dr. Cathy Harollou 	2009
Supervisor: Dr. Patrick Koch / Examiner: Prof. Dr. Cathy Horellou • B.S.: Communication Engineering National Chiao-Tung University, Taiwan Thesis: STBC MIMO-OFDM system Supervisor: Prof. Dr. Ta-Sung Lee	2007

Publication

First Author Papers (N=10; 382 citations)

- Yu-Yen Chang, Lihwai Lin, Hsi-An Pan, Chieh-An Lin, Bau-Ching Hsieh, Connor Bottrell, Pin-Wei Wang, SDSS-IV MaNGA: Unveiling Galaxy Interaction by Merger Stages with Machine Learning, ApJ, 937, 97, 2022.
- Yu-Yen Chang, Bau-Ching Hsieh, Wei-Hao Wang, Yen-Ting Lin, Chen-Fatt Lim, Yoshiki Toba, Yuxing Zhong, Siou-Yu Chang, Identifying AGN host galaxies by Machine Learning with HSC+WISE, ApJ, 920, 68, 2021.
- Yu-Yen Chang, Emeric Le Floc'h, Stéphanie Juneau, Elisabete da Cunha, Mara Salvato, Avishai Dekel, Francesca Civano, Stefano Marchesi, Hyewon Suh, and Wei-Hao Wang, Unveiling Sizes of Compact AGN Hosts with ALMA, ApJ, 888, 44, 2020.
- Yu-Yen Chang, Nicholas Ferraro, Wei-Hao Wang, Chen-Fatt Lim, Yoshiki Toba, Fangxia An, Chian-Chou Chen, Ian Smai, Hyunjin Shim, Yiping Ao, Andy Bunker, Christopher J. Conselice, William Cowley, Elisabete da Cunha, Lulu Fan, Tomotsugu Goto, Kexin Guo, Luis C. Ho, Ho Seong Hwang, Chien-Hsiu Lee, Minju Lee, Michał J. Michałowski, I. Oteo, Douglas Scott, Stephen Serjeant, Xinwen Shu, James Simpson, and Sheona Urquhart, SCUBA-2 Ultra Deep Imaging EAO Survey (STUDIES) II: Structural Properties and Near-Infrared Morphologies of Faint Submillimeter Galaxies, ApJ, 865, 103, 2018.
- Yu-Yen Chang, Emeric Le Floc'h, Stéphanie Juneau, Elisabete da Cunha, Mara Salvato, Francesca Civano, Stefano Marchesi, Olivier Ilbert, Yoshiki Toba, Chen-Fatt Lim, Ji-Jia Tang, Wei-Hao Wang, Nicholas Ferraro, Megan C. Urry, Richard E. Griffiths, Jeyhan S. Kartaltepe, Infrared Selection of Obscured Active Galactic Nuclei in the COSMOS Field, ApJS, 233, 19, 2017b.
- Yu-Yen Chang, Emeric Le Floc'h, Stéphanie Juneau, Elisabete da Cunha, Mara Salvato, Francesca Civano, Stefano Marchesi, J. M. Gabor, Olivier Ilbert, Clotilde Laigle, Henry Joy McCracken, Bau-Ching Hsieh, Peter Capak, Obscured Active Galactic Nuclei triggered in compact star-forming galaxies, MNRAS Letters, 466, 103, 2017a.
- Yu-Yen Chang, Arjen van der Wel, Elisabete da Cunha, Hans-Walter Rix, Stellar Masses and Star Formation Rates for 1M Galaxies from SDSS and WISE, ApJS, 219, 8, 2015.
- Yu-Yen Chang, Arjen van der Wel, Hans-Walter Rix, Bradford Holden, Eric Bell, Elizabeth J. McGrath, Stijn Wuyts, Boris Häußler, Marco Barden, S. M. Faber, Mark Mozena, Henry C. Ferguson, Yicheng Guo, Audrey Galametz, Norman A. Grogin, Dale D. Kocevski, Anton M. Koekemoer, Avishai Dekel, Kuang-Han Huang, Nimish P. Hathi, Jennifer Donley, Structural Evolution of Early-type Galaxies to z=2.5 in CANDELS, ApJ, 773, 149, 2013b.
- Yu-Yen Chang, Arjen van der Wel, Hans-Walter Rix, Stijn Wuyts, Stefano Zibetti, Balasubramanian Ramkumar, and Bradford Holden, Shape Evolution of Massive Early-Type Galaxies: Confirmation of Increased Disk Prevalence at z > 1, ApJ, 762, 83, 2013a.
- Yu-Yen Chang, Rickon Chao, Wei-Hao Wang, and Pisin Chen, A Principle Component Analysis
 of Galaxy Properties from a Large, Gas-Selected Sample, Advances in Astronomy, 2012, 208901,
 2012.

Other Peer-review Papers (N=29; 4164 citations)

Journal Referee

- The Astrophysical Journal
- The Astronomical Journal
- Monthly Notices of the Royal Astronomical Society

Selected Talks

 University of Victoria Seminar, Victoria, Canada 	Apr2023
Unveiling Galaxy Interactions and AGNs by Machine Learning	
NCUE Seminar, Taipei, Taiwan	Mar2023
Unveiling Galaxies with Large Surveys	
 HSC-AGN collaboration meeting, Kagoshima and online (invited) 	Nov2022
Unveiling AGN Host Galaxies by Machine Learning	
 Cross-Strait Forum on Radio Astronomy, online (invited) 	Oct2022
Unveiling Structures of AGN Host Galaxies	
NTNU Seminar, Taipei, Taiwan	Dec2021
Unveiling Galaxies and AGNs by Machine Learning	
NTHU Seminar, Hsinchu, Taiwan	Mar2021
Identifying AGN host galaxies by Machine Learning	
NYCU HEP Seminar, Hsinchu, Taiwan	Mar2021
Unveiling Galaxies and Supermassive Black Holes with Big Data	
 Multiscale Feedback on Galaxy Evolution, Hsinchu, Taiwan (invited) 	Oct2020
Observational Diagnostics of AGN Feedback	
NCU Seminar, Zhongli, Taiwan	Sep2020

Awards and Grants

 NSTC and MoST research grants 	2020-present
 Successful Telescope Proposals: ALMA; VLT/KMOS; JCMT Large Programs 	2015-present
Insight Data Science Fellow	2020
• AS Grants for Young Scholars Attending International Academic Conferences	Abroad 2019
 International Max Planck Research School Fellow 	2010-2013
 NCTU Exchange Student Award and Scholarship 	2006
NCTU Academic Achievement Award	2004-2006

Technical Skills

- o Programming languages: Python, IDL, Matlab, Mathematica, C
- Astronomical tools: MAGPHYS, Le PHARE, CIGALE, GALFIT, SExtractor, GALAPAGOS

Teaching Experiences

 NCHU courses: General Astronomy, General Physics, Lab, Seminar, 	2020-present
 NCHU student supervision: 2 bachelor, 3 master, and 1 PhD students 	2020-present
ASIAA Summer Student Lecture	2017-2019
 ASIAA Summer Student Program 2017 with 2 students 	2017
 Heidelberg University tutor on FP36 	2011-2012
 National Taiwan University TA on Statistical Physics 	2010