

# Yu-Yen Chang | Curriculum Vitae

Department of Physics, National Chung Hsing University  
145 Xingda Rd., South Dist., Taichung City 402

☎ +886-4-2284-0427#713 • ✉ yuyenchang@phys.nchu.edu.tw  
yuyenchang.astro@gmail.com

## Research

- Assistant Professor, Physics Department, NCHU, Taiwan 2020-present
- Postdoctoral Fellow, ASIAA, Taiwan 2016-2020  
Advisor: Dr. Wei-Hao Wang and Dr. Lihwai Lin
- Postdoctoral Fellow, CEA-Saclay, France 2014-2016  
Advisor: Dr. Emeric Le Floch
- Postdoctoral Fellow, Max Planck Institute for Astronomy, Germany 2014  
Advisors: Prof. Dr. Hans-Walter Rix and Prof. Dr. Arjen van der Wel
- ASIAA Summer Student Program, ASIAA, Taiwan 2007  
Supervisor: Dr. Patrick Koch

## Education

- **Ph.D.: Astronomy** 2013  
International Max Planck Research School for Astronomy and  
Cosmic Physics at the University of Heidelberg, Germany  
Thesis: *Galaxy Shapes through Cosmic Time – 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** 2010  
National Taiwan University, Taiwan  
Thesis: *The Correlation between Global Parameters of Galaxies and  
its Implications on the Role of Dark Matter in Structure Formation*  
Supervisors: Prof. Dr. Pisin Chen and Dr. Wei-Hao Wang
- **M.S.: Radio Astronomy and Space Science** 2009  
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 Horellou
- **B.S.: Communication Engineering** 2007  
National Chiao-Tung University, Taiwan  
Thesis: *STBC MIMO-OFDM system*  
Supervisor: Prof. Dr. Ta-Sung Lee

## Publication

### First Author Papers (N=10; 369 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 Floch, 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 Floch, 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 Floch, 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=28; 3861 citations)**.....

## Journal Referee

---

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

## Successful Telescope Proposals

---

- PI: ALMA cycle 4
- Co-I: VLT/KMOS P98; ALMA cycle 4; JCMT Large Programs (STUDIES-SXDS3; eS2COSMOS; JINGLE II)

## Awards and Grants

---

- Insight Data Science Fellow 2020
- Academia Sinica 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

---

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