# **Yu-Yen Chang** | Curriculum Vitae

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

**L** +886-4-2284-0427#713 • ☑ yuyenchang@phys.nchu.edu.tw yuyenchang.astro@gmail.com

## Research

o Assistant Professor, Physics Department, NCHU, Taiwan	2020-present
o Postdoctoral Fellow, ASIAA, Taiwan	2016-2020
Advisor: Dr. Wei-Hao Wang and Dr. Lihwai Lin O Postdoctoral Fellow, CEA-Saclay, France Advisor: Dr. Emeric Le Floc'h	2014-2016
<ul> <li>Postdoctoral Fellow, Max Planck Institute for Astronomy, Germany Advisors: Prof. Dr. Hans-Walter Rix and Prof. Dr. Arjen van der Wel</li> </ul>	2014
o ASIAA Summer Student Program, ASIAA, Taiwan Supervisor: Dr. Patrick Koch	2007
Education	
• <b>Ph.D.</b> : <b>Astronomy</b> International Max Planck Research School for Astronomy and Cosmic Physics at the University of Heidelberg, Germany Thesis: <i>Galaxy Shapes through Cosmic Time</i> – Intrinsic Structure of Early-type Galaxies at High Redshift	2013
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 Horellou	2009
o <b>B.S.</b> : 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; 380 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; 4020 citations).....

## **Journal Referee**

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

#### **Selected Talks**

Nov2022
Oct2022
Dec2021
Mar2021
Mar2021
Oct2020
Sep2020

# **Successful Telescope Proposals**

o PI: ALMA cycle 4

o Co-I: VLT/KMOS; ALMA; JCMT Large Programs(STUDIES-SXDS3;eS2COSMOS;JINGLE II)

## **Awards and Grants**

<ul> <li>MoST and NSTC research grants</li> </ul>	20-2025
o Insight Data Science Fellow	2020
o AS Grants for Young Scholars Attending International Academic Conferences Abroad	d 2019
<ul> <li>International Max Planck Research School Fellow</li> </ul>	10-2013
<ul> <li>NCTU Exchange Student Award and Scholarship</li> </ul>	2006
NCTU Academic Achievement Award	004-2006

## **Technical Skills**

o Programming languages: Python, IDL, Matlab, Mathematica, C

o Astronomical tools: MAGPHYS, Le PHARE, CIGALE, GALFIT, SExtractor, GALAPAGOS

# **Teaching Experiences**

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