

Curriculum Vitae

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Current Positions

2022-Present **Distinguished Research Fellow, ASIAA**
2019-Present **PI, ALMA-Taiwan Project (~ 2MUSD/yr, the largest MoST PI grant)**
2016-Present **Manager, ASIAA CASA Development Center for ALMA**
Here, ALMA = Atacama Large Millimeter/submillimeter Array
MoST = Ministry of Science and Technology

Previous Positions

2015-2022 **Research Fellow, ASIAA**
2020-2021 **Acting Deputy Director, ASIAA**
2017-2020 **Deputy Director, ASIAA**
2016-2019 **co-PI, ALMA-Taiwan Project**
2015-2021 **Joint Professor, Department of Physics, National Taiwan University, Taiwan**
2009-2015 **Manager, Taiwan ARC (ALMA Regional Center) node**
2010-2012 Adjunct Associate Professor, Institute of Earth Sciences, National Taiwan Normal University, Taiwan
2010-2014 Associate Research Fellow, ASIAA
2008-2010 Adjunct Assistant Professor, Institute of Earth Sciences, National Taiwan Normal University, Taiwan
2006-2009 Assistant Research Fellow, ASIAA
2003-2006 Postdoctoral Fellow, Harvard-Smithsonian Center for Astrophysics – Submillimeter Array (SMA) Project
2001-2003 Postdoctoral Research Associate, National Research Council/NASA/Jet Propulsion Laboratory/Caltech
1995-2001 Research/Teaching Assistant, Department of Astronomy, University of Maryland
1994-1995 Research Assistant, Institute of Astronomy and Astrophysics, Academia Sinica, Taiwan
1992-1994 Research Assistant, Institute of Astronomy, National Central University, Taiwan

Education

2001 Ph. D. in Astronomy, University of Maryland, USA
Dissertation Advisers: Drs. Lee Mundy and James Stone
1997 M. S. in Astronomy, University of Maryland, USA
1994 M. S. in Astronomy, National Central University, Taiwan
1992 B. S. in Physics, National Central University, Taiwan

Honors and Awards

- 2021 **Presidential Scholars Program, Academia Sinica**
- 2020 **Outstanding Research Award, Ministry of Science and Technology**
- 2019 Significant Research Achievements, Academia Sinica
- 2019-2023 **Investigator Award, Academia Sinica**
- 2017 **Outstanding Research Award, Ministry of Science and Technology**
- 2017 Significant Research Achievements, Academia Sinica
- 2016 Significant Research Achievements, Academia Sinica
- 2014 Significant Research Achievements, Academia Sinica
- 2013-2017 **Career Development Award, Academia Sinica**
- 2010 Significant Research Achievements, Academia Sinica
- 2009 Significant Research Achievements, Academia Sinica
- 2007 Significant Research Achievements, Academia Sinica
- 2001-2003 National Research Council Postdoctoral Research Associateship, NASA/JPL/Caltech
- 2001 Phi Kappa Phi Honor Society, University of Maryland
- 1995-1997 Berkeley-Illinois-Maryland Association (BIMA) scholarship from Institute of Astronomy and Astrophysics, Academia Sinica, Taiwan
- 1994 Phi Tau Phi Scholastic Honor Society of the Republic of China
- 1992-1994 Ministry of Education Graduate Fellowship, Taiwan

Services for Institute of Astronomy and Astrophysics, Academia Sinica (ASIAA)

- 2022-Present **Mentoring Committee**
- 2017-Present **Appointment and Promotion Committee**
- 2017-Present **Building and Safety Committee, Served as Chair from 2017-2021**
- 2014-Present **Computing Committee, Served as Chair from 2014-2017**
- 2017-2021 **Management Team**
- 2017-2021 **Performance Evaluation Committee**
- 2016-2018 **Faculty Search Committee**
- 2015-2017 **Time Allocation Committee for Canada-France-Hawaii Telescope (CFHT), ASIAA**
- 2011-2014 **Standing Committee**
- 2007-2008 **Time Allocation Committee for Submillimeter Array (SMA)**

Atacama Large Millimeter/submillimeter Array (ALMA) - Taiwan Project (~ 2MUSD/yr)

- 2019-Present **PI of ALMA - Taiwan Project:** make plans for the project, propose to MoST every 3 years, and monitor the progress and budget execution. Current major subprojects in this project are Taiwan-ARC, ACDC, Band-1 project, and GLT/VLBI/EHT project, with the first two established by myself.
- 2016-Present **Manager of ASIAA CASA Development Center (ACDC):** established and manage the ACDC for software development, collaborating with NRAO in US, IDIA in South Africa, Physics Department in University of Alberta in Canada to develop the next generation visualization and analysis tool called Cube Analysis and Rendering Tool for Astronomy (CARTA), providing a fast and efficient visualization and analysis tool for ALMA and other big radio interferometry arrays, e.g., VLA, ngVLA, SKA. Since 2021, CARTA has been integrated in ALMA archive and used by users from all over the world.
- 2016-2019 **co-PI of ALMA - Taiwan Project:** helped PI to plan for the project, propose to MoST every 3 years, and monitor the progress and budget execution.
- 2011-2014 **East-Asia ALMA Scientific Advisory Committee:** providing scientific advices to ALMA science operation.
- 2009-2015 **Manager of Taiwan-ALMA Regional Center (ARC):** established and managed the Taiwan-ARC node, providing user supports to in-island ALMA users and observing support to ALMA operations in Chile, helping in-island ALMA users in obtaining observing time through their proposals, providing computing resources for data reduction and analysis.

Teaching Experiences

- 2015-2021 Joint Professor, Department of Physics, National Taiwan University, Taiwan
– Taught a graduate course: Radio Astronomy
- 2008-2010 Adjunct Assistant Professor, Institute of Earth Sciences, National Taiwan Normal University, Taiwan
– Taught a graduate course: Radio Astronomy
- 1995-1998 Teaching Assistant, Department of Astronomy, University of Maryland
– Led discussion sections for the following undergraduate Astronomy classes:
(1) Introduction to Astronomy, (2) Solar System Astronomy, (3) Cosmology, and (4) Astronomy and Astrophysics

Past ARC members under my supervision when I was a ARC manager (2009-2015)

Members Shigehisa Takakuwa (now Kagoshima Univ), Yu-Nung Su (now ARC manager), Alfonso Trejo-Cruz (now ARC support scientist), Baobab Hau-Yu Liu (now ASIAA faculty), Kuo-Song Wang (now ACDC support scientist), Yu-Ting Wu (ARC member), Rita Peng (outside Astronomy), Masaaki Hiramatsu (now NAOJ), Satoko Takahashi (now NAOJ posted in Chile), Ronny Zhao-Geisler (now European Space Operations Centre), Edwige Chapillon (now IRAM ARC node), Wesley Young (Retired)

System Managers Zheng Meyer-Zhao (now Cluster computing group of SURFsara in Amsterdam), Anthony Moraghan (now ACDC system manager)

ASIAA CASA Development Center (2016-Present)

2020/02-Present Yu-Hsuan Hwang (software engineer)
2019/12-Present Ming-Yi Lin (software engineer)
2019/11-Present Tian-Hao Chang (software engineer)
2017/03-Present Cheng-Chin Chiang (software engineer lead)
2016/08-Present Kuo-Song Wang (support scientist, deputy manager)
2016/08-Present Anthony Moraghan (support scientist, deputy manager)
2018/07-2022/02 Shou-Chieh Hsu (software engineer)
2018/06-2021/05 Hengtai Jan (software engineer) (Now in Google)
2017/02-2018/08 Sean Chao (software engineer) (Astronomy PhD Program)
2017/08-2018/03 Julie Yao (software engineer)
2016/11-2018/02 Grimmer Teng-Chieh Kang (software engineer lead)
2017/02-2018/07 Chia-Jung Hsu (software engineer) (Astronomy PhD Program)
2016/08-2017/04 Erh-Chung Chen (software engineer)
2016/08-2016/10 Light Shing-Kwong Wong (software engineer)

Postdocs

2020/04-Present Po-Sheng Huang, Proplanetary Nebulae, Observations and Simulations
2019/03-Present Sommath Dutta, Star Formation
2016-2020 Tien-Hao Hsieh, Star Formation
2013/09-2016/08 Anthony Moraghan, Star Formation, Simulations.
2010/08-2014/07 Alfonso Trejo-Cruz, ARC Postdoc

Students

2021-Present Ying-Chi Hu, Undergraduate student in Physics, National Tsing-Hua University
2019-Present Yi-Shan Tsai, Master student in Astronomy, National Taiwan University
2014-2022 Kai-Syun Jhan, first at Master student and then Ph.D. student in Physics, National Taiwan University
2009-2019 Po-Sheng Huang, first as Master student and then Ph.D. student in Astronomy, National Taiwan University (now Postdoc in ASIAA)
2016-2018 Daniel Zhe-Yu Lin, Undergraduate student in Physics, National Chung Cheng University, (now PhD student in University of Virginia)
2016-2017 Baole Lim, Undergraduate student in Physics, National University of Singapore
2012-2016 Hsiang-Chih Hwang, Undergraduate student in Physics, National Taiwan University (PhD study in John Hopkins University, now Postdoc in Inst. of Advanced Study)
2012-2013 Jeremy Tay Jian Hao, Undergraduate student in Physics, National University of Singapore
2011-2014 Tzu-Ying Chen, Master Student in Earth Sciences, National Taiwan Normal University
2011-2014 Hung-Jin Huang, Master Student in Astronomy, National Taiwan University (now Postdoc in University of Arizona)
2008-2008 Ming-Yi Lin, Undergraduate Student in Earth Sciences, National Taiwan Normal University (now software engineer in ASIAA)

2008-2010 Chun-Hui Yang, Master student in Physics, National Taiwan Normal University

2007-2011 Ming-Chien Hsu, Ph. D. student in Physics, National Taiwan University (was in National Singapore University)

2007-2008 Yao-Yuan Mao, Undergraduate student in Physics, National Taiwan University (now NASA Einstein Fellow at Rutgers University)

Journal Referee : Nature, ApJ, A&A, MNRAS, RMxAA, JKAS

Observing Experiences

- Interferometry arrays: BIMA, SMA, ALMA
- Single-dish telescopes: FCRAO, JCMT