

I-DA CHIANG

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RESEARCH INTERESTS

Multi-wavelength studies of the interstellar medium in nearby galaxies

I am interested in the relations between dust, metal, and neutral gas in the interstellar medium of spatially resolved galaxies, especially how these relations depend on local physical environments.

Radio astronomy

As part of my research, I calibrated HI 21 cm line emission data observed by the *Karl G. Jansky* Very Large Array, with ~ 170 hours of total observational time. I am interested in both the science and software development of radio astronomy.

EDUCATION

University of California, San Diego

Sep. 2014 - Present

Ph.D. (Physics)

National Taiwan University

Aug. 2012 - Jul. 2014

M.S. (Physics)

Thesis: “Plasmonic Enhanced Optical Disk Reactor for Wastewater Treatment”

Adviser: Prof. Din Ping Tsai

National Taiwan University

Sep. 2007 - Jun. 2011

B.S. (Physics)

EMPLOYMENT

Taiwan (R.O.C.) Armed Forces

Aug. 2011 - Jul. 2012

Second Lieutenant (Company second-in-command)

AWARDS

Deans Award, College of Science, National Taiwan University

Jun. 2014

Deans Award, College of Science, National Taiwan University

Jun. 2011

Presidential Award, National Taiwan University

Mar. 2011

REFEREED PUBLICATIONS AS FIRST OR SECOND AUTHOR

2) D. Utomo, **I-D. Chiang**, A.K. Leroy, K.M. Sandstrom, J. Chastenet, “The Resolved Distributions of Dust Mass and Temperature in Local Group Galaxies”, 2019, ApJ, accepted

1) **I-D. Chiang**, K.M. Sandstrom, J. Chastenet, L.C. Johnson, A.K. Leroy, D. Utomo, “The Spatially Resolved Dust-to-metals Ratio in M101”, 2018, ApJ, 865, 2

REFEREED PUBLICATIONS AS OTHER COAUTHOR

3) J. Chastenet, K.M. Sandstrom, **I-D. Chiang**, A.K. Leroy, D. Utomo, C. Bot, K.D. Gordon, B.T. Draine, Y. Fukui, T. Onishi, K. Tsuge, “Polycyclic Aromatic Hydrocarbon Fraction at ~ 10 pc scale in the Magellanic Clouds”, 2019, ApJ, submitted

2) A.K. Leroy, K.M. Sandstrom, D. Lang, A. Lewis, E.A. Behrens, J. Chastenet, **I-D. Chiang**, M.J. Gallagher, D. Utomo, “A $z = 0$ Multi-wavelength Galaxy Synthesis I: A WISE and GALEX Atlas of Local Galaxies”, 2019, ApJ, submitted

1) W.T. Chen, K.-Y. Yang, C.-M. Wang, Y.-W. Huang, G. Sun, **I-D. Chiang**, C.Y. Liao, W.-L. Hsu, H.T. Lin, S. Sun, L. Zhou, A.Q. Liu, D.P. Tsai, “High-Efficiency Broadband Meta-Hologram with Polarization-Controlled Dual Images”, 2014, Nano Lett., 14, 225

RESEARCH PRESENTATIONS

2019, Contributed talk, Dusting the Universe, Tucson, Arizona, USA

2019, Lunch talk, University of California, San Diego, USA

2018, Tea time talk, University of California, San Diego, USA

2018, Poster, CPHDUST, Copenhagen, Denmark

2018, Poster, ASROC2018, Taipei, Taiwan

2019, Lunch talk, University of California, San Diego, USA

2013, Contributed talk, Frontiers in Optics, Orlando, Florida, USA

2012, Poster, Optics & Photonics Taiwan International Conference, Taipei, Taiwan

TEACHING EXPERIENCE

Lab TA Coordinator, PHYS 1-ABC Lab – University of California, San Diego *Mar. 2015 - Jun. 2016*

Teaching Assistant, PHYS 1-A Lab – University of California, San Diego *Sep. 2014 - Mar. 2015*

OUTREACH EXPERIENCE

STEM in Your Backyard: City Heights – presenter *Jan. 2018*

Tech Trek: University of California, San Diego – presenter *Jul. 2017*