# 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  $\sim 170$  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, arXiv:1902.08629 (accepted by ApJ)
- 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 (submitted to ApJ)

- 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 (submitted to ApJ).
- 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