Yao-Lun Yang

PhD Candidate

Contact Information

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Research Interests

Early Stage Star Formation, Outflows and Jets, Interstellar Medium, Atomic and Molecular Spectroscopy, and Infrared & Radio Astronomy

Education

2018 Ph.D. Astronomy (expected)
The University of Texas at Austin, U.S.A.

Advisor: Professor Neal J. Evans II
Thesis: *The Structure of Class 0 Protostars*

2016 M.A. Astronomy
The University of Texas at Austin, U.S.A.

Advisor: Professor Neal J. Evans II
Thesis: *The Class 0 Protostar BHR71: Herschel Observations and Dust Continuum Models*

2012 B.S. Physics
National Taiwan University, Taiwan

Advisor: Dr. Ciska Kemper (ASIAA)
Project: *Molecular Hydrogen in Diffuse Interstellar Medium of the Large Magellanic Cloud*

Awards

Fred T. Goetting, Jr. Memorial Endowed Presidential Fellowship ($10000), UT-Austin
Summer Internship ($14120), STScI
Outstanding Thesis Award ($1000), UT-Austin
Summer Student Fellowship ($1300), ASIAA
College Student Research Training Fellowship ($1500), National Science Council, Taiwan

Publications

[1] Green, J. D. Jones, O. C.; Keller,L. D. **el al.** 2016, "The Mid-infrared Evolution of the FU Orionis Disk", ApJ, 832, 4

[2] Green, J. D., **Yang, Y.-L.** et al. 2016, "The CDF Archive: Herschel PACS and SPIRE Spectroscopic Data Pipeline and Products for Protostars and Young Stellar Objects", AJ, 151, 75

[3] **Yang, Y. L.**, Evans, N. J. II, Green, J., "The Structure of Class 0 Protostars: BHR71 in Herschel View", Proceedings of the Frank N. Bash Symposium 2015

[4] Larson, R. L., Evans, N. J., Green, J. D., **Yang, Y.-L.** 2015, "Evidence for Decay of Turbulence by MHD Shocks in the ISM via CO Emission", ApJ, 806, 70

[5] Naslim, N., Kemper, F., Madden, S. C. **et al.** 2015, "Molecular Hydrogen Emission in the Interstellar Medium of the Large Magellanic Cloud",

MNRAS, 446, 2490-2504

Observing Proposals

ALMA, cycle 4, 1 hr (as PI)
SOFIA/GREAT, cycle 4, 5.3 hrs (as Co-PI, $56 000 awarded)
SOFIA/FORCAST, cycle 4, 3 hrs (as Co-I, $33 000 awarded)
IRTF/TEXES, 2015, 1 night (as Co-I & on-site observer)
IRTF/TEXES, 2014, 1 night (as Co-I & on-site observer)

Contributed Talks

SPF Seminar, MPIA	2016
SPF Seminar, ESO-Garching	2016
Astrochem Seminar, Leiden	2016
Star Formation 2016, Splinter session, Exeter	2016
AstroCoffee Talk, IfA	2015
Subaru Seminar, Subaru Telescope	2015
Lunch Talk, ASIAA	2015
Lunch Talk, NRAO/UVa	2015
Workshop on Dense Cores, Monterey	2014
ISM/Planets seminar, UT-Austin, 4 Talks	2013–2016

Public Outreach

- Organizer, Astronomy on Tap ATX, Austin, TX, 2016-
- Talk, "Will They Call Me on My Cell Phone: How the Drake Equation Estimates the Odds of Finding ET ", Astronomy on Tap ATX, Oct. 2016
- Talk, "*Astronomical Observations*", Astronomy Student Association, The University of Texas at Austin, Mar. 2015
- Talk, "*How to Make A Star*", Monthly Star Party, Westcave Preserve, Jan. 2015
- Talk, "*From Cold Gas to Hot Stars*", Astronomy Student Association, The University of Texas at Austin, Mar. 2014