YAO-LUN YANG

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CONTACT INFORMATION

Department of Astronomy, University of Texas at Austin
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RESEARCH INTERESTS

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

EDUCATION

2019 Ph.D. Astronomy (expected)
The University of Texas at Austin, U.S.A. Advisor: Prof. Neal J. Evans II
Dissertation: *The Structure of Class 0 Protostars*

2016 M.A. Astronomy
The University of Texas at Austin, U.S.A. Advisor: Prof. 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 AND RECOGNITIONS

Concentration in Teaching and Mentoring, UT-Austin
Professional Development Award ($600), UT-Austin
University Graduate Continuing Fellowship (2017-2019, $80 000), UT-Austin
Fred T. Goetting, Jr. Memorial Endowed Presidential Fellowship ($10 000), UT-Austin
Summer Internship ($14 120), STScI
Outstanding Thesis Award ($1000), UT-Austin
Summer Student Fellowship ($1300), ASIAA
College Student Research Training Fellowship ($1500), National Science Council, Taiwan

PUBLICATION

First-Author and Significant Contribution Refereed Journal Articles

[4] **Yang, Y.-L.**, Green, J. D., Evans, N. J. II, et al. 2018, "CO in Protostars (COPS): *Herschel*-SPIRE Spectroscopy of Embedded Protostars", ApJ, *accepted*, arXiv:1805.00957

[3] **Yang, Y.-L.**, Evans, N. J. II, Green, J. D. et al. 2017, "The Class 0 Protostar BHR71: *Herschel* Observations and Dust Continuum Models", ApJ, 835, 259

[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

[1] 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

Other Refereed Journal Articles

[5] Yi, H-.W., Lee, J-.L., Liu, T, **et al.** 2018, "Planck Cold Clumps in the λ Orionis complex. II. Environmental effects on core formation", *submitted*, arXiv:1805.05738

[4] Karska, A, Kaufman, M. J., Kristensen, L. E., **et al.** 2018, "The Herschel-PACS Legacy of Low-mass Protostars: Far-IR Gas Properties and Their Origin in FUV-illuminated C-shocks", ApJS, 235, 30

[3] Liu, T, Kim, K.-T., Juvela, M, **et al.** 2018, "The TOP-SCOPE Survey of Planck Galactic Cold Clumps: Survey Overview and Results of an Exemplar Source, PGCC G26.53+0.17", ApJS, 234, 28

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

[1] 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 PROGRAMS

ALMA, cycle 4, 1 hr (as PI)
SOFIA/GREAT, cycle 6, 4.1 hrs (as PI, \$41 000 awarded)
SOFIA/FORCAST, cycle 6, 3.9 hrs (as Co-I, \$7 000 awarded)
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)
Harlan J. Smith Telescope/DIAFI, 4 nights (as on-site observer)
IRTF/TEXES, 2016, 2 nights (as Co-I & on-site observer)
IRTF/TEXES, 2015, 1 night (as Co-I & on-site observer)
IRTF/TEXES, 2014, 1 night (as Co-I & on-site observer)

CONTRIBUTED TALKS

Star and Planet Formation Seminar, STScI	2018
231st AAS Meeting, National Harbor, DC	2018
2017 Asia-Pacific Regional IAU Meeting, Taipei, Taiwan	2017
72nd International Symposium on Molecular Spectroscopy, UIUC	2017
230th AAS Meeting, Austin, TX	2017
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, CA	2014

PUBLIC OUTREACH AND PROFESSIONAL SOCIETY MEMBERSHIP

- Organizer, Astronomy on Tap ATX, Austin, TX, 2016–
  Monthly astronomy talk held in a local bar joined by more than 250 audience
- 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, UT-Austin, Mar. 2015
- Talk, "*How to Make A Star*", Westcave Preserve, Jan. 2015
- Talk, "*From Cold Gas to Hot Stars*", Astronomy Student Association, UT-Austin, Mar. 2014
- American Astronomical Society Member, 2017–