

YAO-LUN YANG

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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

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

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., **et 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, Baltimore	2018
231st AAS Meeting , National Harbor, DC	2018
2017 Asia-Pacific Regional IAU Meeting , Taipei, Taiwan	2017
72nd International Symposium on Molecular Spectroscopy , Champaign-Urbana, IL	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
ISM/Planets seminar , UT-Austin, 5 Talks	2013–2017

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, 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
- American Astronomical Society Member, 2017–