

CURRICULUM VITAE

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EDUCATION

1997 **BS in Astronomy & Physics with Honors, The University of Arizona**

1997 **BS in Applied Mathematics, The University of Arizona**

2002 **PhD in Astronomy, The University of Texas**

Thesis: *Tracing the Mass During Star Formation: Studies of Dust Continuum and Dense Gas*
Supervised by Neal J. Evans II & Daniel T. Jaffe

EMPLOYMENT

2002 - 2005 Jansky Postdoctoral Fellow, National Radio Astronomy Observatory (Socorro, NM)

2005 - 2008 Bok Postdoctoral Fellow, Steward Observatory, The University of Arizona

2014 Sabbatical, Visiting Scientist, Max Planck Institut für Astronomie (Heidelberg, Germany)

2008 - *Present* Adjunct Astronomer, National Radio Astronomy Observatory

2008 - *Present* **Associate Professor, Astronomy Department, The University of Arizona**

2014 - *Present* Astronomy Major Coordinator

2016 - *Present* Assistant Director Arizona NASA Space Grant Consortium

AWARDS

2016 Professor Leon and Pauline Blitzer Award for Excellence in the Teaching of Physics and Related Sciences

RECENT PUBLICATIONS (Author or coauthor on 75 refereed journal papers)

1. Calahan, J., Shirley, Y., Svoboda, B., et al. "Searching for Inflow Towards Massive Starless Clump Candidates Identified in the Bolocam Galactic Plane Survey" 2018, ApJ, in press (arXiv:1805.00036)
2. Svoboda, B. E., Shirley, Y. L., Battersby, C., et al. "The Bolocam Galactic Plane Survey. XIV. Physical Properties of Massive Starless and Star-forming Clumps" 2016, ApJ, 822, 59
3. Seo, Y. M., Shirley, Y. L., Goldsmith, P., et al. "An Ammonia Spectral Map of the L1495-B218 Filaments in the Taurus Molecular Cloud. I. Physical Properties of Filaments and Dense Cores" 2015, ApJ, 805, 185
4. Shirley, Y. L. "The Critical Density and the Effective Excitation Density of Commonly Observed Molecular Dense Gas Tracers" 2015, PASP, 127, 299
5. Shirley, Y. L., Ellsworth-Bowers, T. P., Svoboda, B., et al. "The Bolocam Galactic Plane Survey. X. A Complete Spectroscopic Catalog of Dense Molecular Gas Observed toward 1.1 mm Dust Continuum Sources with $7.5 \leq l \leq 194$ " 2013, ApJS, 209, 2
6. Shirley, Y. L., Huard, T. L., Pontoppidan, K. M., et al. "Observational Constraints on Submillimeter Dust Opacity" 2011, ApJ, 728, 143