

Contact Information

Department of Astronomy
Yale University
P.O. Box 208101, New Haven, CT 06520
(Express) 260 Whitney Ave., New Haven CT, 06511

Phone : + 1 (203) 432-3025
Fax : + 1 (203) 432-5048
E-mail : luis.vargas@yale.edu
Web : <http://www.astro.yale.edu/lcv7>

Education

Yale University
PhD. in Astronomy (2009 –)

University of Kansas
B.S., May 2008, Physics, Astronomy (with departmental honors)
University Honors Program, University Distinction

Research Interests

Dwarf galaxy evolution, galactic (sub)-structures (chemical and kinematic properties), high-resolution spectroscopy, data mining in large datasets, galaxy cluster simulations

Selected Awards

2010 NSF Graduate Research Fellowship
2010 NSF/JSPS East Asia and Pacific Institutes Fellowship
2008 Stranathan Award, Dept. of Physics and Astronomy, University of Kansas
2007 Freeman-ASIA Study Abroad Fellowship
2006 Barry Goldwater Scholarship
2006 Phi Beta Kappa
2005 American Physical Society Minority Scholar
2003 National Hispanic Scholar

Teaching Experience

2012 Teaching Fellow, “Introduction to Cosmology”, Yale
2010 Teaching Fellow, “Life in the Universe”, Yale
2009 Teaching Fellow, “Introduction to Cosmology”, Yale
2009 Teaching Fellow, “Introduction to Astronomical Observing”, Yale
2008-9 Adjunct Instructor, GED Math, Wichita Area Technical College
2007-8 Teaching Assistant, “Undergraduate Astronomy Lab”, U. of Kansas
2007-8 Physics tutor, U. of Kansas

Computer Experience

- Programming Languages: FORTRAN 77/90, C++, IDL, basic shell scripting
 - Astronomical Software: IRAF, MIR, MIRIAD, MOOG, DAOPHOT
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Observational Experience

- 40" telescope, Mount Laguna Observatory (CCD Imager)
 - 24" Smith telescope, Mount Laguna Observatory (Photoelectric photometer)
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Publications

Fadely, R., Wilman, B., Geha, M., Walsh, S., Munoz, R. R., Jerjen, H., Vargas, L. C., Da Costa, G. S., *Segue 3: An Old, Extremely Low Luminosity Star Cluster in the Milky Way's Halo*, AJ 142, 88 (2011)

Twarog, B. A., **Vargas, L. C.**, Anthony-Twarog, B. J., *The uvbyH β Metallicity Calibration for G and K Dwarfs*, Astronomical Journal 134, 1777 (2007)

Posters

Vargas, L. C., Geha, M., Padmanabhan, N., Majewski, S. R., *Search for Ultra-Faint Dwarf Galaxies in SDSS3 BOSS Imaging*, AAS 215 (2010)

Twarog, B. A., Anthony-Twarog, B. J., Feldt, J. A., Liebst, K. A., Mayer, L., **Vargas, L. C.**, *Probing the Metal-Rich Stellar Population in the Solar Neighborhood*, AAS 211 (2008)

Vargas, L. C., Benjamin, R., *A Comparison of Spitzer, WIYN 0.9m, and Chandra Point Source Populations in the Inner Galaxy*, AAS 209 (2007)

Foreign Languages

Spanish (native), Japanese (business-level)