

Johannes Ulf Lange

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Education

Graduate School of Arts and Sciences, Yale University New Haven, CT 06511, USA Master of Science in Astronomy, Ph.D. Candidate	Aug 2014 to present
The Chinese University of Hong Kong Shatin, N.T., Hong Kong SAR Postgraduate Research Exchange Program	Aug 2013 to July 2014
Ruprecht-Karls-Universität Heidelberg 69117 Heidelberg, Germany Master of Science in Physics	Sept 2012 to Aug 2014
University of California, Santa Barbara Santa Barbara, CA 93106, USA Undergraduate Exchange Program	Sept 2011 to Mar 2012
Freie Universität Berlin 14195 Berlin, Germany Bachelor of Science in Physics	Oct 2009 to Aug 2012

Publications

- Villarreal, A. S. et al., including Lange, J. U., 2017, “The immitigable nature of assembly bias: the impact of halo definition on assembly bias”, Monthly Notices of the Royal Astronomical Society, Volume 472, Issue 1, p.1088–1105
- Nelson, E. J. et al., including Lange, J. U., 2016, “Where Stars Form: Inside-out Growth and Coherent Star Formation from HST H α Maps of 3200 Galaxies across the Main Sequence at $0.7 < z < 1.5$ ”, The Astrophysical Journal, Volume 828, Issue 1, article id. 27, 24 pp.
- Momcheva, I. et al., including Lange, J. U., 2016, “The 3D-HST Survey: Hubble Space Telescope WFC3/G141 Grism Spectra, Redshifts, and Emission Line Measurements for $\sim 100,000$ Galaxies”, The Astrophysical Journal Supplement Series, Volume 225, Issue 2, article id. 27, 35 pp.
- Lange, J. U. et al., 2016 “Evidence for Non-stellar Rest-frame Near-IR Emission Associated with Increased Star Formation in Galaxies at $z \sim 1$ ” The Astrophysical Journal Letters, Volume 819, Issue 1, article id. L4, 6 pp.

Lange, J. U., Chu, M.-C., 2014, “Can galactic dark matter substructure contribute to the cosmic gamma-ray anisotropy?”, Monthly Notices of the Royal Astronomical Society, Volume 447, Issue 1, p.939-947

Lange, J., Pohl, M., 2013, “The average GeV-band Emission from Gamma-Ray Bursts” Astronomy & Astrophysics, Volume 551, id.A89, 6 pp.

Teaching Experience

- Introduction to Astronomical Observing, Lab TA, Yale University, Fall 2017
- Astrostatistics and Data Mining, Lab Leader, Yale University, Spring 2016
- Introduction to Cosmology, Section Leader, Yale University, Fall 2015
- Gravity, Astrophysics, and Cosmology, Grader, Yale University, Spring 2015
- Introduction to Astronomical Observing, Lab TA, Yale University, Fall 2014

Skills

Programming Languages – C/C++, Python, Cython, Java, Haskell, LabVIEW
Scientific Applications – NumPy, SciPy, matplotlib, LaTeX, git
Operating Systems – Ubuntu Linux, Scientific Linux, MS Windows

Honors and Awards

- KITP Graduate Fellowship Program
- Henry A. Smith Fellowship, Yale University
- DAAD (German Academic Exchange Service) Scholarship
- Deutschlandstipendium National Scholarship Program
- Ernst Reuter Scholarship, Free University of Berlin
- Dean’s List, University of California, Santa Barbara