

Johannes Ulf Lange

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Education

Yale University M.Sc., M.Phil, Ph.D. Candidate Thesis Topic: The Galaxy–Halo Connection Advisor: Frank van den Bosch	Aug 2014 to present
The Chinese University of Hong Kong Postgraduate Research Exchange Program	Aug 2013 to July 2014
Ruprecht-Karls-Universität Heidelberg Master of Science in Physics	Sept 2012 to Aug 2014
University of California, Santa Barbara Undergraduate Exchange Program	Sept 2011 to Mar 2012
Freie Universität Berlin Bachelor of Science in Physics	Oct 2009 to Aug 2012

Publications

- Campbell, D. et al., including [Lange, J. U.](#), 2017, “The Galaxy Clustering Crisis in Abundance Matching”, *Monthly Notices of the Royal Astronomical Society*
- [Lange, J. U.](#) et al., 2017, “Brightest galaxies as halo centre tracers in SDSS DR7”, *Monthly Notices of the Royal Astronomical Society*
- Villareal, A. S. et al., including [Lange, J. U.](#), 2017, “The Inmitigable Nature of Assembly Bias: The Impact of Halo Definition on Assembly Bias”, *Monthly Notices of the Royal Astronomical Society*
- Zentner, A. R., Hearin, A., van den Bosch, F. C., [Lange, J. U.](#) and Villarreal, A., 2016, “Constraints on Assembly Bias from Galaxy Clustering”, arXiv:1606.07817
- 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*
- 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*
- [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*
- [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*
- [Lange, J.](#), Pohl, M., 2013, “The average GeV-band Emission from Gamma-Ray Bursts”, *Astronomy & Astrophysics*

Teaching Experience

- Astrostatistics and Data Mining, Lab Leader, Yale University, Spring 2018
- 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