

CURRICULUM VITÆ

Rychard J. Bouwens

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Research Experience and Employment History

2015-Present Associate Professor, Leiden Observatory (*tenured*)
2010-2015 Assistant Professor, Leiden Observatory (*tenure-track*)
2006-2010 Research Specialist in High-Redshift Galaxy Formation, UC Santa Cruz

Fellowships and Awards

2015 Leiden Teaching Certification (BKO)
2013 Pastoor Scheemisprijs voor de Sterrekunde
 (awarded once every three years to the young Dutch astronomer judged to provide the most outstanding contributions to astronomy over the previous three years)
2003 NASA Certificate for contributions to the success of HST Servicing Mission 3B

Professional Service

2002-present Referee for ApJ, ApJ Letters, MNRAS, A&A
2007 Panel Reviewer for the NSF Astronomy & Astrophysics Grants Program
2011, 2014 Panel Member, HST Review
2014, 2015 Telescope Allocation Committee, Dutch Astronomy

Major Achievements

- Selected and Confirmed 3 of the 4 Ly α -emitting galaxies currently known: $z=7.477$ (Roberts-Borsani+2016, Stark+), $z=7.730$ (Oesch+2015), and $z=8.683$ (Zitrin+2015). Executed project (Roberts-Borsani+2016) with a Leiden MSc student Guido Roberts-Borsani.

Professional Affiliations

American Astronomical Society (2004-present)

Investigation Definition Team, Hubble Space Telescope Advanced Camera for Surveys (2000-present)

Grants as PI

“Dynamical Masses, Spectroscopic Redshifts, and Dust Emission in the Brightest z 7-8 Galaxies in the Early Universe Using A Suite of Approved + Future ALMA Observations,” NOVA Grant, 220.000 euros (Sept 2018 - August 2022)

“The Growth of Baby Galaxies in the Early Universe, as Seen by Multi-Wavelength Views of Unprecedented Sensitivity,” NWO TOP Grant Competition, Module 1, 663.435 euros

“Confirmation of Ultra-Luminous $z \sim 9$ Galaxies,” NASA/Hubble Space Telescope (March 2016 - March 2018), \sim \\$15,000

“Preparing for JWST through Constraints on the Bright End of the $z \sim 9$ LF from CANDELS,” NASA/Hubble Space Telescope (March 2015 - March 2017), \sim \\$29,000, pending

“A Complete Census of the Bright $z \sim 9-10$ Galaxies in the CANDELS data set,” NASA/Hubble Space Telescope (July 2014 - June 2016), \sim \\$61,379

“Characterizing the growth of galaxies in the early universe using deep spectroscopic observations with VLT/MUSE + Spitzer/IRAC data,” NOVA Grant, \sim \\$210.000 euros (September 2014 - July 2018)

“Quantifying the Stellar Mass Density of the Universe out to $z \sim 9-10$: Ultra-Deep Spitzer Observations of Two Highly Magnified $z \sim 9-10$ Galaxies,” NASA/Spitzer Space Telescope (January 2013 - December 2014), \\$5,000

“Characterizing the build-up of stars in galaxies in the early universe,” NWO Open Competition (December 2013 - December 2016), 218.682 euros

“ICLASH: Coherent Views of the Galaxy Formation Puzzle over $z \sim 3-10$ Through the Looking Glass,” NASA/Spitzer Space Telescope (June 2011 - July 2013), \\$25,910

“Ultra-deep near-IR Imaging with HST WFC3/IR: Galaxies at $z \sim 7-10$ in the Reionization Epoch,” NWO Open Competition (November 2010 - October 2014), 212.455 euros

“Building on the Significant NICMOS Investment in GOODS: A Bright, Wide-Area Search for $z \geq 7$ Galaxies,” NASA/Space Telescope Science Institute (July 2007 - June 2009), \\$245,872; PI share: \\$200,842.

“Measuring the Stellar Masses of Galaxies at $z \sim 7$,” NASA/Spitzer Space Telescope (July 2006 - June 2009), \\$97,600; PI share: \\$68,320.

“Probing the Galaxy Population at $z \sim 7-10$ Using Archival ACS + NICMOS data,” NASA/Space Telescope Science Institute (July 2006 - June 2009), \\$103,364; PI share: \\$103,364.

Grants as co-I

“The GOODS UV Legacy Fields: A Full Census of Faint Star-Forming Galaxies at $z \sim 0.5-2$,” NASA/Space Telescope Science Institute, \sim \\$700,000 (October 2014 - September 2016)

“A Spectroscopic Redshift for the Most Luminous Galaxies Candidate at $z \sim 10$,” NASA/Space Telescope Science Institute, \sim \\$80,000 (October 2014 - September 2016)

“High level science products from deep ACS and WFC3/IR imaging over the CDF-S/GOODS-S region,” \sim \\$518,160 (October 2013 - September 2015)

“Galaxies at $z \sim 7-10$ in the Reionization Epoch: Luminosity Functions to $<0.2L^*$ from Deep IR

Imaging of the HUDF and HUDF05 Fields,” NASA/Space Telescope Science Institute, \$690,000

“The IRAC Ultra Deep Fields 2010: Using IRAC to Characterize Ultrafaint z 7-10 Galaxies,” NASA/Spitzer Space Telescope (July 2010 - June 2012), \$262,000

“SEDS: The Spitzer Extended Deep Survey,” NASA/Spitzer Space Telescope (July 2009 - June 2011), \$1,062,000; co-I share: none.

“Galaxies at $z \sim 7-10$ in the Reionization Epoch: Luminosity Functions to $< 0.2L^*$ from Deep IR Imaging of the HUDF and HUDF05 Fields,” NASA/Space Telescope Science Institute (July 2009 - June 2011), \$922,000; co-I share: \sim \$450,000.

“The Extreme Globular Cluster System of Abell 1689: The Ultimate Test of Universal Formation Efficiency,” NASA/Space Telescope Science Institute (July 2009 - June 2011), \$160,000; co-I share: \$55,000.

“The Faint-End Slope of the Rest-Frame Optical Luminosity Function at $z \sim 2-3$,” NASA/Space Telescope Science Institute (July 2009 - June 2011), \$55,000; co-I share: none.

“NICMOS Imaging of GOODS: Probing the Evolution of the Earliest Massive Galaxies, Galaxies Beyond Reionization, and the High Redshift Obscured Universe,” NASA/Space Telescope Science Institute (July 2007 - June 2009), \$585,000; co-I share: \$51,319.

“A Public Deep IRAC Survey in the Extended Chandra Deep Field South,” NASA/Spitzer Space Telescope (July 2007 - June 2009), \$368,700; co-I share: \$15,983.

“Search for Extremely Faint $z > 7$ Galaxy Population with Cosmic Lenses,” NASA/Space Telescope Science Institute (July 2007 - June 2009), \$140,000; co-I share: \$28,000.

“Deep NICMOS Images of the UDF,” NASA/Hubble Space Telescope (July 2003 - June 2008), \$770,000; co-I share: \$173,235.

“A Spitzer Public Legacy Survey of the UKIDSS Ultra Deep Survey,” NASA/Spitzer Space Telescope (July 2006 - June 2008), \$876,000; co-I share: \$22,000.

Press Releases Resulting from Work

1/10/2018, Cambridge/Leiden/Geneva Release, “ALMA Detects ‘Whirlpool’ Movement in Two Early Galaxies”

3/3/2016, NASA/STScI Press Release, “Hubble Team Breaks Cosmic Distance Record”

9/3/2015, Keck/Caltech/Leiden Press Release, “Farthest Galaxy Detected”

5/5/2015, NASA/STScI Press Release, “Astronomers Set a New Galaxy Distance Record”

1/7/2014, NASA/STScI Press Release, “NASA Great Observatories Team Up to Discover Ultra-Bright Young Galaxies”

9/25/2012, NASA/STScI Press Release, “Hubble Goes to the eXtreme to Assemble Farthest Ever View of the Universe”

1/26/2011, NASA/STScI Press Release, “NASA’s Hubble Finds Most Distant Galaxy Candidate Ever Seen in the Universe”

1/5/2010, NASA/STScI Press Release, “Hubble Reaches the Undiscovered Country of Primeval Galaxies”

4/29/2008, NASA/STScI Press Release, “Compact Galaxies in Early Universe Pack a Big Punch” (co-author on original paper)

2/12/2008, NASA/STScI Press Release, “Astronomers Find One of the Youngest and Brightest Galaxies in the Early Universe”

10/25/2006, Carnegie Press Release, “Astronomers weight 200-million-year-old baby galaxies”

9/21/2006, NASA/STScI Press Release, “NASA’s Hubble Finds Hundreds of Young Galaxies in

Early Universe”

9/13/2006, NASA/STScI Press Release, “Tracing the Evolution of the First Galaxies in the Universe”

9/23/2004, NASA/STScI Press Release, “Hubble Approaches the Final Frontier: The Dawn of Galaxies”

Space-based Observational Programs

Hubble Space Telescope, co-I on two HST General observer programs totalling 440 orbits in Cycle 17 (including parallels: PIs Illingworth and Trenti); PI for one HST General observer program totalling 11 orbits in cycle 22 and one General observer program totalling 60 orbits in Cycle 16; co-I on two cycle 22 proposals totalling 142 orbits; a prominent co-I on the large cycle 17 HUDF09 program obtaining 192 orbits on the HUDF and parallel fields; co-I on two cycle 12/15 HST General observer programs in totalling 501 orbits; Key Participant in the ACS GTO program, which obtained 550 orbits of HST data in cycles 11, 12, and 13, co-I on a large 529-orbit multi-cycle treasury proposal to obtain deep multi-wavelength observations on 25 low-redshift galaxy clusters (CLASH: PI Postman)

Spitzer Space Telescope, PI for four Spitzer Space Telescope General observer programs totalling 22 hours, 54 hours, 66 hours, and 34 hours, respectively, to determine the nature of $z \sim 9-10$ candidates over the BoRG pure-parallel HST program, to obtain deep Spitzer/IRAC data over several bright $z \sim 9$ galaxies over CLASH, to complete the Spitzer/IRAC coverage over CLASH, and to obtain deeper Spitzer/IRAC data over the deep NICP34 parallel field; co-I on a Spitzer proposal to obtain ultra-deep IRAC data over the three ultra-deep WFC3/IR fields that make up the HUDF09 program (260 hours: PI Labbe), a separate two related Spitzer programs to obtain ultra-deep IRAC data over the CANDELS deep regions (730 hours: PI Labbé and 90 hours: PI Oesch), and a separate Spitzer program to obtain 130 hours of observations (PI Coe) on a probable $z \sim 11$ galaxy; co-I on two Spitzer proposals to acquire IRAC/MIPS data over the Extended CDF-South field (122.9 hours) and the UKIDSS Ultra Deep Survey field (292 hours); co-I on one Spitzer exploratory science program (2108 hours); co-I on a Spitzer program to complete the IRAC coverage over the COSMOS field (1500 hours); co-I on a Spitzer program to prepare for Euclid (5286 hours).

Ground-based Observational Programs

Very Large Telescope, co-I (Supervised PhD student Leindert Boogaard PI) on a 5-hour program to use KMOS to measure systemic redshifts for some of the most massive galaxies over the ASPECS HUDF ALMA Data.

Very Large Telescope, PI on a 5-hour program to use KMOS to measure systemic redshifts for some of the most massive galaxies over the ASPECS HUDF ALMA Data.

Very Large Telescope, co-I on a 18-hour program by my postdoc Benne Holwerda to use X-shooter to observe 4 ultra-bright $z \sim 8$ galaxies identified over various BoRG pure parallel fields.

Very Large Telescope, co-I on a 15-hour program to use X-shooter to observe 5 ultra-bright $z \sim 8$ galaxies over the COSMOS UltraVISTA field (PI Labbé).

Atacama Long Millimeter Array, co-I on a 150 hour cycle-4 large program (ASPECS) over the HUDF (PIs: Walter/Carilli/Aravena).

Atacama Long Millimeter Array, co-I on two ~ 20 hour cycle-2 programs (2014-2015) and 1 ~ 10 hour cycle-3 program (2015-2016) to obtain band 3 and band 6 molecular line scan of a ~ 1 arcmin² region of the Hubble Ultra Deep Field (PI Walter; PI Aravena).

Atacama Long Millimeter Array, co-I on a ~ 16 hour cycle-2 program (2014-2015) and ~ 20 hour cycle-3 program (2015-2016) to obtain band 6 observations of all six of the clusters in the Frontier Field program (PI Bauer)

Very Large Telescope, co-I on ~ 30 nights (2014) of MUSE observations planned by the MUSE GTO team to observe the Hubble Ultra Deep Field, two of the Frontier Field clusters, and wide-area region over the CANDELS South and COSMOS fields (PI Bacon, PI Richard, PI Wisotzki).

Very Large Telescope, co-I on proposal (2013) to measure spectroscopic redshifts for lensed $z \sim 6-7$ galaxies seen in the CLASH program, 2 nights on LBT/MODS (PI: Vanzella)

Keck Telescope, co-I on numerous proposals (2011-2015: PI Illingworth and PI Oesch) to follow up $z \sim 6-8$ targets in the GOODS or CANDELS fields

Subaru Telescope, co-I on a proposal (2013: originally drafted by PhD student Renske Smit) to try to derive spectroscopic redshifts for galaxies with ultra-blue IRAC colors believed to have redshifts in the range $z=6.6-6.9$ (PI: Bradley)

Very Large Telescope, co-I on a proposal (2013) to try to derive spectroscopic redshifts for galaxies with ultra-blue IRAC colors believed to have redshifts in the range $z=6.6-6.9$ (PI: PhD student Renske Smit)

Very Large Telescope, PI on a proposal (2012-2013) targeting bright galaxies over the CANDELS UDS field in an attempt to determine the prevalence of Ly α emission (17 hours)

Very Large Telescope, PI on a proposal (2011-2012) targeting a particular bright $z = 7$ galaxy found over CANDELS South and several other $z \sim 7$ galaxies in the same field in an attempt to measure their redshifts (9 hours)

Very Large Telescope, PI for a 8-hour program (2010) to obtain optical+near-IR/X-shooter spectroscopy on the very bright, strongly lensed Bradley, Bouwens, et al. (2008) $z \sim 7.6$ candidate

Keck Telescope, co-I (science PI) for a two night program on Keck 2 (Spring 2008) to do near-IR spectroscopy with NIRSPEC on the very bright, strongly lensed Bradley, Bouwens, et al. (2008) $z \sim 7.6$ candidate

Very Large Telescope, co-I for a 126 hour large program (PI Fontana: 2010) and 26 hour science verification program (PI Fontana: 2008) to obtain deep near-IR (YJK_s) HAWK-I imaging over four fields with archival z -band imaging data for the purposes of finding $z \sim 7$ galaxies

Keck Telescope, co-I for several DEIMOS / LRIS programs (2004-2007) to do spectroscopy on small samples of $z \sim 6$ i -dropout galaxies in CL1252-2927, GOODS, and the UDF Parallel fields

Conference/Workshop Organization

10/2017 – Principal Organizer for a Lorentz Workshop “Physical Characteristics of Galaxies with Spectroscopy with a View for JWST”

10/2016 – Principal Organizer for a Lorentz Workshop “Physical Characteristics of Normal $z > 2$ Galaxies”

2/2008 – Principal Co-Coordinator (with Garth Illingworth) of the 2008 Aspen Winter Meeting titled “The First 2 Billion Years of Galaxy Formation: The Reionization Epoch and Beyond”

Extended Invited Visits to International Institutions

6/00-8/00	European Southern Observatory, invited by Piero Rosati
2/99-4/99	University of Oxford, invited by Joseph Silk
10/97-12/97, 3/98-8/98	Institut d’Astrophysique de Paris, invited by Joseph Silk
7/99-8/99	Observatoire de Paris, invited by Francoise Combes
9/97	Max Planck Institut fur Astrophysics, invited by Joseph Silk

Public Outreach

firstgalaxies.ucolick.org – Responsible for both assembling and maintaining the content for a website for the general public describing the current observational quest to find the earliest, most distant sources in the universe (highest page ranking in google searches using the words “first” and “galaxies”)

Poster Advertising the Hubble Space Telescope Advanced Camera for Surveys – Responsible for simulating the image of faint galaxies (lensed by a foreground cluster) featured on the poster distributed throughout schools around the United States. This poster was to advertise the capabilities of the Advanced Camera for Surveys, the new camera to be installed on HST (Featured as Astronomy Picture of the Day – March 6, 2002).

Students and Postdocs Supervised

Supervising postdoctoral work of Leiden Postdocs Themiya Nanayakkara, Bruno Ribeiro, and Mauro Stefanon (2017+)

Supervising the Euclid pipeline construction work of Leiden Postdocs Mher Kazandjian, Hugo Budelmeijer, and Arjen van Elteren (2015+)

Supervising PhD student Leindert Boogaard in Leiden (2016+)

Assisting with the supervision of Leiden postdoc Mauro Stefanon (2015+)

Supervising PhD student Daniel Lam in Leiden (2015+)

Supervised a Masters Project with Guido Roberts-Borsani (Leiden University) on Using Spitzer/IRAC colors to Identify the Brightest $z \geq 7$ Galaxies in the CANDELS program (2014-2015)

Supervising the Postdoctoral Research of Benne Holwerda (Leiden University) on the Properties of Distant Galaxies (2013-2014)

Supervised the PhD research of Renske Smit (Leiden University) on the properties of star-forming galaxies in the distant universe (2010-2014)

Supervised the Masters thesis of Nicolas Rasappu (Leiden University) on nebular emission in $z \sim 5$ galaxies (2013-2014)

Supervised the bachelor thesis of Leandra Swiers (Leiden University) on the lensing of distant galaxies in the CLASH program (2012)

Worked closely with Pascal Oesch on three projects (50% of his PhD thesis) in the last year of his PhD thesis (2009-2010)

Supervised Valentino Gonzalez (UC Santa Cruz: accepted a faculty position at the University of Chile [2015-]) in modelling the stellar populations of $z \sim 7$ galaxy candidates (2008-2012)

Supervised the undergraduate thesis of Beth Nordeen at UC Santa Cruz (2009-2010)

Provided guidance to the post-doctoral researcher Larry Bradley in his write-up of results on several bright, high-redshift candidates around massive lensing clusters (2007-2008)

Co-supervised graduate research at UC Santa Cruz by Corey Dow-Hygelund (2004-2006)

Teaching Experience

Fall 2017	Lecturer, Leiden University, Origin and Evolution of the Universe
Fall 2016	Lecturer, Leiden University, Galaxies: Structure, Formation, and Evolution
Fall 2015	Lecturer, Leiden University, Observational Cosmology
Spring 2015	Lecturer, Leiden University, Galaxies: Structure, Formation, and Evolution
Fall 2013	Lecturer, Leiden University, Galaxies: Structure, Formation, and Evolution
Spring 2013	Lecturer, Leiden University, Observational Cosmology
Fall 2011	Lecturer, Leiden University, Observational Cosmology
Spring x2008	Guest Lecturer, UC Santa Cruz, General Astronomy
2004-2010	Guest Lecturer, UC Santa Cruz, Multiple Graduate Courses

Significant Software Engineering Projects

BUCS (Chief Developer) – Multi-purpose software library developed for studying galaxy formation and evolution. This library includes routines for constructing PSF-matched source catalogs based upon imaging data, simulating deep imaging fields, calculating selection volumes by adding “cloned” galaxies to real data, doing chemical evolution and spectrophotometric synthesis, and estimating photometric redshifts using Bayesian techniques ($\sim 180,000$ lines of C/Python).

WBUCS (Co-Developer) – A full-featured web application to provide for the simulation of deep imaging data for well-known future and current telescopes using the BUCS software package.

APSYS (Co-Developer) – Software pipeline that produces fully aligned, astrometrically correct, CR-rejected image mosaics from raw HST Advanced Camera for Surveys data (Blakeslee et al. 2003)

NICRED (Co-Developer) – Software pipeline that produces fully aligned, astrometrically correct, CR-rejected image mosaics from raw HST NICMOS data (Magee et al. 2007)

SUPERALIGN (Chief Developer) – Software Package to create a global alignment solution for large number of images scattered over a wide area. Developed to align the ~ 5000 ACS WFC images taken over the two GOODS fields (~ 2500 lines of C).

Recent Science Presentations (I-Invited, C-Contributed)

1/2018 I-ASPECS Team Meeting, Ringberg, Germany
 1/2018 I-Growth and Evolution of Galaxies at High Redshifts, Sesto, Italy
 12/2017 I-Distant Galaxies from the Far South, Bariloche, Argentina
 8/2017 C-Santa Cruz Galaxy Formation Meeting, Santa Cruz, USA
 6/2017 C-EWASS Meeting, Prague, Czech Republic
 6/2017 C-Paris, France
 3/2017 I-Invited Lectures on High Redshift Galaxies, SNS, Pisa, Italy
 1/2017 C-The Growth of Galaxies in the Early Universe, Sesto, Italy
 1/2017 I-Dawn of Galaxies, Oberguergl, Austria
 10/2016 C-Exploring the Universe with JWST - II, Montreal, Canada
 8/2016 C-Santa Cruz Galaxy Formation Meeting, Santa Cruz, USA
 7/2016 I-High Z 2016, Valletta, Malta
 7/2016 I-EWASS Meeting on the Frontier Fields, Athens, Greece
 6/2016 C-Illuminating the Dark Ages, Heidelberg, France
 6/2016 I-Cosmic dawn of galaxy formation, Paris, France
 3/2016 C-Reionization Epoch, Aspen, Colorado, USA
 1/2016 C-Physics of Cosmic Dawn and Reionization, Sesto, Italy
 10/2015 I-Exploring the Universe with JWST, Noordwijk, Netherlands
 9/2015 I-Carnegie Institute for Science, Pasadena, USA
 9/2015 I-Observatory of Lisbon, Lisbon, Portugal
 8/2015 C-Santa Cruz Galaxy Formation Meeting, Santa Cruz, USA
 8/2015 C-Galaxies at High Redshift and Their Evolution, Honolulu, USA
 8/2015 I-IAU GA Meeting on the Frontier Fields, Honolulu, USA
 7/2015 I-Star Formation History of the Universe, Garching, Germany
 6/2015 C-EWASS Meeting, Tenerife, Spain
 6/2015 I-Reionization: A Multiwavelength Approach, Kruger Park, South Africa
 4/2015 I-University of Sussex, Colloquium
 4/2015 C-South by High Redshift, Austin, Texas
 3/2015 I-Back at the Edge of the Universe, Sintra, Portugal
 12/2014 I-JWST Advisory Team Meeting, Leiden, Netherlands
 11/2014 I-The First Billion Years of Galaxies and Black Holes, IPAC, USA
 11/2014 C-Yale Frontier Fields Workshop, New Haven, Connecticut, USA
 10/2014 I-University of Amsterdam, Colloquium
 9/2014 I-WISH meeting, Marseille, France
 8/2014 C-Santa Cruz Galaxy Formation Meeting, Santa Cruz, USA
 7/2014 I-The First Billion Years of Galaxies and Black Holes, Sesto, Italy
 7/2014 I-Digging Deep into the Extragalactic Infrared Sky, Geneva, Switzerland
 6/2014 I-The Unquiet Universe, Cefalu, Italy
 6/2014 C-MUSE Busy Week, Aussois, France
 5/2014 C-Multiwavelength-surveys: Galaxy Formation and Evolution, Dubrovnik, Croatia
 4/2014 I-Formation and Growth of Galaxies in the Young Universe, Oberguergl, Austria
 10/2013 I-Metal Production and Distribution in a Hierarchical Universe, Paris, France
 9/2013 C-Galaxy Evolution over Five Decades, Cambridge, United Kingdom
 7/2013 C-Reionization at the Red Center, Uluru, Australia
 7/2013 I-Local Group, Local Cosmology, Turku, Finland
 6/2013 C-The Formation of the Hubble Sequence, Paris, France
 6/2013 I-Cosmic Dawn at Ringberg, Tegernsee, Germany
 6/2013 I-Astronomy, Radio Sources, and Society, Leiden, Netherlands

Refereed Publications

Refereed Articles – Major Author

1. **Bouwens, R.J.**, Illingworth, G.D., Franx, M., Ford, H.C. 2007, *Astrophysical Journal*, 709, 133. “UV Luminosity Functions at $z \sim 4, 5$, and 6 from the HUDF and other Deep HST ACS Fields: Evolution and Star Formation History,” 481 citations
2. **Bouwens, R.J.**, Illingworth, G.D., Labbé, I., Oesch, P. A., Trenti, M., van Dokkum, P.G., Franx, M., Stiavelli, M., Carollo, M., Magee, D., González, V. 2011, *Astrophysical Journal*, 737, 90. “Ultraviolet Luminosity Functions from 132 $z \sim 7$ and $z \sim 8$ Lyman-break Galaxies in the Ultra-Deep HUDF09 and Wide-area Early Release Science WFC3/IR Observations”, 449 citations
3. **Bouwens, R.J.**, Illingworth, G.D., Blakeslee, J.P., Franx, M. 2006, *Astrophysical Journal*, 653, 53. “Galaxies at $z \sim 6$: The Rest-Frame Continuum-UV LF and Luminosity Density from 506 HUDF, HUDF Parallel, and GOODS *i*-dropouts,” 314 citations
4. **Bouwens, R.J.**, Illingworth, G. D., Oesch, P. A., Trenti, M., Labbe', I., Bradley, L., Carollo, M., van Dokkum, P. G., Gonzalez, V., Holwerda, B., Franx, M., Spitler, L., Smit, R., Magee, D. 2015, *Astrophysical Journal*, 803, 34. “UV Luminosity Functions at redshifts $z \sim 4$ to $z \sim 10$: 10000 Galaxies from HST Legacy Fields,” 286 citations
4. **Bouwens, R.J.**, Illingworth, G.D., Oesch, P. A., Stiavelli, M., van Dokkum, P., Trenti, M., Magee, D., Labbé, I., Franx, M., Carollo, C. M., González, V. 2010, *Astrophysical Journal Letters*, 709, 133. “Discovery of $z \sim 8$ Galaxies in the Hubble Ultra Deep Field from Ultra-Deep WFC3/IR Observations,” 286 citations
5. **Bouwens, R.J.**, Illingworth, G.D., Franx, M., Chary, R-R., Meurer, G.R., Conselice, C., Ford, H., Giavalisco, M., & van Dokkum, P. 2009, *Astrophysical Journal*, 705, 936. “UV Continuum Slope and Dust Obscuration from $z \sim 6$ to $z \sim 2$: The Star Formation Rate Density at High Redshift,” 286 citations
6. **Bouwens, R.J.**, Illingworth, G.D., Oesch, P.A., Franx, M., Labbé, I., Trenti, M., van Dokkum, P., Carollo, C.M., González, V., Smit, R., Magee, D. 2012, *Astrophysical Journal*, 754, 83. “UV-continuum Slopes at $z \sim 4-7$ from the HUDF09+ERS+CANDELS Observations: Discovery of a Well-defined UV Color-Magnitude Relationship for $z \geq 4$ Star-forming Galaxies,” 256 citations
7. **Bouwens, R.J.**, Illingworth, G.D., Franx, M., Ford, H.C. 2008, *Astrophysical Journal*, 686, 230. “Galaxies at $z \sim 7 - 10$ in the HUDF and GOODS fields: UV Luminosity Functions,” 249 citations
8. **Bouwens, R.J.**, Illingworth, G. D., Labbé, I., Oesch, P. A., Carollo, M., Trenti, M., van Dokkum, P.G., Franx, M., Stiavelli, M., González, V., Magee, D., Bradley, L.D. 2011, *Nature*, 469, 504. “A candidate redshift $z \approx 10$ galaxy and rapid changes in that population at an age of 500 Myr”, 221 citations
9. Oesch, P.A., **Bouwens, R.J.**, Illingworth, G. D., Carollo, C. M., Franx, M., Labbé, I., Magee, D., Stiavelli, M., Trenti, M., van Dokkum, P.G. 2010, *Astrophysical Journal Letters*, 709, 16. “ $z \sim 7$ Galaxies in the HUDF: First Epoch WFC3/IR Results,” 212 citations
10. González, V., Labbé, I., **Bouwens, R.J.**, Illingworth, G., Franx, M., Kriek, M., Brammer, G.B. 2010, *Astrophysical Journal*, 713, 115. “The Stellar Mass Density and Specific Star Formation Rate of the Universe at $z \sim 7$,” 206 citations
11. **Bouwens, R. J.**, Illingworth, G.D., Oesch, P. A., Trenti, M., Stiavelli, M., Carollo, C. M., Franx, M., van Dokkum, P. G., Labbé, I., Magee, D. 2010, *Astrophysical Journal Letters*, 708, 69.

“Very Blue UV-Continuum Slope β of Low Luminosity $z \sim 7$ Galaxies from WFC3/IR: Evidence for Extremely Low Metallicities?” 178 citations

12. **Bouwens, R.J.**, Illingworth, G.D., Oesch, P.A., Trenti, M., Labbé, I., Franx, M., Stiavelli, M., Carollo, C.M., van Dokkum, P., Magee, D. 2012, *Astrophysical Journal*, 752, 5. “Lower-luminosity Galaxies Could Reionize the Universe: Very Steep Faint-end Slopes to the UV Luminosity Functions at $z \geq 5-8$ from the HUDF09 WFC3/IR Observations,” 173 citations

13. **Bouwens, R. J.**, Illingworth, G. D., Blakeslee, J. P., Broadhurst, T. J., Franx, M. 2004, *Astrophysical Journal Letters*, 697, 1907. “Galaxy Size Evolution at High Redshift and Surface Brightness Selection Effects: Constraints from the Hubble Ultra Deep Field,” 172 citations

14. Coe, D., Zitrin, A., Carrasco, M., Shu, X., Zheng, W., Postman, M., Bradley, L., Koekemoer, A., **Bouwens, R.**, et al. 2013, *Astrophysical Journal*, 762, 32. “CLASH: Three Strongly Lensed Images of a Candidate $z \approx 11$ Galaxy,” 171 citations

15. González, V., Labbé, I., **Bouwens, R.J.**, Illingworth, G., Franx, M., Kriek, M. 2011, *Astrophysical Journal*, 735, 34. “Evolution of Galaxy Stellar Mass Functions, Mass Densities, and Mass-to-light Ratios from $z \sim 7$ to $z \sim 4$,” 159 citations

16. **Bouwens, R. J.**, Thompson, R. I., Illingworth, G. D., Franx, M., van Dokkum, P. G., Fan, X., Dickinson, M. E., Eisenstein, D. J., Rieke, M. J. 2004, *Astrophysical Journal Letters*, 616, 79. “Galaxies at $z \sim 7 - 8$: z_{850} -dropouts in the Hubble Ultra Deep Field,” 152 citations

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