

CURRICULUM VITÆ

Rychard J. Bouwens

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Education

1999 Ph.D., Physics/Astronomy, University of California at Berkeley
1994 B.S., Physics, Mathematics, & Chemistry, Hope College, *magna cum laude*

Research Experience

2006-present Research Specialist in High-Redshift Galaxy Formation, UC Santa Cruz
2000-2005 Postdoctoral Research Fellow (ACS GTO team), UC Santa Cruz (Illingworth)
1995-1999 Graduate Research in Galaxy Formation and Evolution (Advisor: Joseph Silk)
1990-1994 Undergraduate Research on the Rotational & Vibrational Properties of Molecules (Polik)
1990-1994 Software Engineer, Interfacing with Laser & Data Acquisition Hardware

Fellowships and Awards

2003 NASA Certificate for contributions to the success of HST Servicing Mission 3B
1994-1997 National Science Foundation Graduate Fellow
1992-1994 Barry Goldwater Scholar
1994 Almon T. Godfrey Award in Chemistry
1994 Gene VanTamelen Prize for Creativity in the Sciences
1994 Albert E. Lampen Mathematics Prize
1992-1994 Lower Michigan Mathematics Competition (2 1st's, 1 2nd)
1990 National Chemistry Olympiad Finalist

Professional Service

2002-present Referee for ApJ, ApJ Letters, MNRAS, A&A
2007 Panel Reviewer for the NSF Astronomy & Astrophysics Grants Program

Professional Affiliations

American Astronomical Society (2004-present)
Investigation Definition Team, Hubble Space Telescope Advanced Camera for Surveys (2000-present)

Major Achievements

- Conducted the most comprehensive analysis of UV LFs at $z \sim 4$, $z \sim 5$, $z \sim 6$, $z \sim 7$, and $z \sim 8$ thus far
- Pioneered the selection of $z \sim 7$ z -dropout galaxies from HST data
- Helped identify possibly the brightest, highly reliable $z > 7$ LBG candidate presently known
- Co-author of perhaps the best software suite to reduce ACS + NICMOS data
- Developer of a large galaxy simulation and cataloguing package (BUCS)

Current Grants as PI

“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/UCSC share: \$200,842.

“Measuring the Stellar Masses of Galaxies at $z \sim 7$,” NASA/Spitzer Space Telescope (July 2006 - June 2009), \$97,600; PI/UCSC 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/UCSC share: \$103,364.

Current Grants as co-I

“The IRAC Ultra Deep Fields 2010: Using IRAC to Characterize Ultrafaint z 7-10 Galaxies,” NASA/Spitzer Space Telescope (July 2010 - June 2012), pending; co-I/UCSC share: pending.

“SEDS: The Spitzer Extended Deep Survey,” NASA/Spitzer Space Telescope (July 2009 - June 2011), \$1,062,000; co-I/UCSC 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/UCSC 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/UCSC 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/UCSC 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/UCSC 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/UCSC share: \$28,000.

“Deep NICMOS Images of the UDF,” NASA/Hubble Space Telescope (July 2003 - June 2008), \$770,000; co-I/UCSC 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/UCSC share: \$22,000.

Press Releases Resulting from Work

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); PI for one HST General observer program totalling 60 orbits in Cycle 16; 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

Spitzer Space Telescope, PI for one Spitzer Space Telescope General observer program totalling 34 hours; 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; 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)

Ground-based Observational Programs

Very Large Telescope, PI for a 10 hour program to obtain optical, near-IR spectroscopy on a very bright, strongly lensed $z \sim 7.6$ candidate (Bradley, Bouwens et al. 2008)

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

Very Large Telescope, co-I for a 126 hour large program (PI Fontana) and 26 hour science verification program (PI Fontana) 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 (Fall 2007 - Spring 2009)

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

Conference/Workshop Organization

2/2008 – Serving as one of the principal coordinators 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

Helped supervise graduate research at UC Santa Cruz by Corey Dow-Hygelund (2004-2006)

Provided some guidance to the post-doctoral researcher Larry Bradley in his studies of bright, high-redshift candidates around massive lensing clusters (2007-2008)

Provided some mentoring to UCSC graduate student Shannon Patel in his studies of cluster galaxies at $z \sim 0.8$ (2007-present)

Supervising UCSC graduate student Valentino Gonzalez in modelling the stellar populations of $z \sim 7$ galaxy candidates (2008-present)

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

Teaching Experience

- 2008 Guest Lecturer for An Undergraduate Course
- 2004-2010 Guest Lecturer for Several Graduate Courses
- 1994 Teaching Assistant, General Physics
- 1991-1993 Tutor, General Physics
- 1991-1993 Grader, Multivariable Calculus & Calculus I

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)

- 6/2010 I-From reionization to the emergence of the Hubble Sequence, Leiden, NL
- 6/2010 I-The First Galaxies, Quasars and GRBs, State College, Pennsylvania
- 5/2010 I-NRAO, Socorro, New Mexico
- 4/2010 I-Herzberg Institute for Astronomy, Victoria, Canada
- 4/2010 I-JWST & the ELTs: An Ideal Combination, Garching, Germany
- 3/2010 C-From 1st light to Star Formation, Tucson, Arizona
- 3/2010 C-First Stars and Galaxies, Austin, Texas
- 2/2010 I-Cosmological Reionization, Allahabad, India
- 2/2010 C-The High Redshift Universe: A Multi-Wavelength View, Aspen, CO
- 1/2010 I-KIPAC, Stanford, Palo Alto, CA
- 1/2010 C-Astronomy & Astrophysical Society Meeting, Washington, DC
- 12/2009 C-The Origin of Galaxies, Obergurgl, Austria
- 11/2009 I-ETH Zurich, Switzerland
- 11/2009 I-Observatoire de Geneve, Switzerland
- 11/2009 I-Gaseous Evolution of Galaxies, Ringberg, Germany
- 8/2009 C-Santa Cruz Galaxy Formation Workshop, Santa Cruz, CA
- 8/2009 I-The First Galaxies, Theoretical Progress, Rio di Janeiro, Brazil
- 7/2009 C-The Ly α Universe, Paris, France
- 3/2009 I-Beyond JWST, Baltimore, Maryland
- 3/2009 I-Leiden Observatory, Leiden, Netherlands
- 2/2009 C-Galaxy Formation Workshop, Napa, California
- 2/2009 I-Max Planck Institut fur Astronomie, Heidelberg, Germany
- 11/2008 C-Star Formation at Half the Age of the Universe, Martinique
- 10/2008 I-Carnegie Observatories of Washington, CA
- 10/2008 C-University of California, Los Angeles, CA
- 8/2008 C-Santa Cruz Galaxy Workshop, Santa Cruz, CA
- 7/2008 I-Far Away: Light in the Young Universe, Paris, France
- 2/2008 C-The First 2 Billion Years of Galaxy Formation, Aspen, CO
- 1/2008 C-University of California, Santa Cruz, Santa Cruz, CA
- 12/2007 C-Panoramic Views of Galaxy Formation and Evolution, Hayama, Japan
- 9/2007 C-ACS GTO meeting, Jackson Hole, WY
- 9/2007 I-University of California, Santa Barbara, Santa Barbara, CA
- 8/2007 C-A Century of Cosmology - Past, Present and Future, Venice, Italy
- 7/2007 C-Galaxy Growth in a Dark Universe, Heidelberg, Germany
- 4/2007 I-Harvard-Smithsonian Center for Astrophysics, Cambridge, MA
- 4/2007 I-Max Planck Institute for Astrophysik, Garching, Germany
- 3/2007 I-The Origin of Galaxies, Obergurgl, Austria
- 3/2007 I-John Hopkins University, Baltimore, MD
- 3/2007 C-University of California, Santa Cruz, Santa Cruz, CA
- 2/2007 I-Lawrence Berkeley Labs, Berkeley, CA
- 1/2007 C-Astronomy & Astrophysical Society Meeting, Seattle, WA

Papers in Preparation

1. **Bouwens, R.J.**, et al. "Use of Gravitational Lensing by Galaxy Clusters to study High-Redshift Galaxies: An empirical investigation using $z \sim 4, 5, 6$ g, r, i dropouts behind 6 low-redshift galaxy clusters with deep ACS imaging."

Refereed Publications

86. **Bouwens, R.J.**, Illingworth, G. D., Labbe, I., Oesch, P. A., Carollo, M., Trenti, M., van Dokkum, P.G., Franx, M., Stiavelli, M., Gonzalez, V., Magee, D., Bradley, L.D. “A candidate redshift $z \sim 10$ galaxy and rapid changes in that population at an age of 500 Myr.” 2011, *Nature*, 469, 504.
85. Gobat, R., Daddi, E., Onodera, M., Finoguenov, A., Renzini, A., Arimoto, N., **R. Bouwens**, Brusa, M., Chary, R.-R., Cimatti, A., Dickinson, M., Kong, X., Mignoli, M. “A mature cluster with X-ray emission at $z = 2.07$.” 2010, *A&A*, in press, arXiv:1011.1837
84. Conselice, C.J., Bluck, A.F.L., Buitrago, F., Bauer, A.E., Grtzbach, R., **Bouwens, R.J.**, Bevan, S., Mortlock, A., et al. “The Hubble Space Telescope GOODS NICMOS Survey: Overview and the Evolution of Massive Galaxies at $1.5 < z < 3$.” 2010, *MNRAS*, in press, arXiv:1010.1164.
83. Oesch, P. A., **Bouwens, R. J.**, Carollo, C. M., Illingworth, G. D., Magee, D., Trenti, M., Stiavelli, M., Franx, M., Labbé, I. “The Evolution of the UV Luminosity Function from $z \sim 0.75$ to $z \sim 2.5$ using HST ERS WFC3/UVIS Observations.” 2010, *ApJL*, 725, 150.
82. **Bouwens, R.J.**, Illingworth, G.D., González, V., Labbé, I., Franx, M., Conselice, C.J., Blakeslee, J., van Dokkum, P., Holden, B., Magee, D., Marchesini, D., & Zheng, W. “ $z \sim 7$ galaxy candidates from NICMOS observations over the HDF South and the CDF-S and HDF-N GOODS fields.” 2010, *ApJ*, 725, 1587.
81. Castellano, M., Fontana, A., Paris, D., Grazian, A., Pentericci, L., Boutsia, K., Santini, P., Testa, V., Dickinson, M., Giavalisco, M., **Bouwens, R.**, Cuby, J.-G., Mannucci, F., *et al.* “The bright end of the $z \sim 7$ UV Luminosity Function from a wide and deep HAWK-I survey.” 2010, *A&A*, 524, 28.
80. Strazzullo, V., Rosati, P., Pannella, M., Gobat, R., Santos, J.S., Nonino, M., Demarco, R., Lidman, C., Tanaka, M., Mullis, C.R., Nunez, C., Rettura, A., Jee, M. J., Bhringer, H., Bender, R., **Bouwens, R. J.**, et al. “Cluster galaxies in XMMU J2235-2557: galaxy population properties in most massive environments at $z \sim 1.4$.” 2010, *A&A*, 524, A17.
79. Labbé, I., González, V., **Bouwens, R.J.**, Illingworth, G.D., Franx, M., Trenti, M., Oesch, P.A.; van Dokkum, P.G., Stiavelli, M., Carollo, C. M., *et al.* “Star Formation Rates and Stellar Masses of $z = 7 - 8$ Galaxies from IRAC Observations of the WFC3/IR Early Release Science and the HUDF Fields.” 2010, *ApJL*, 716, 103.
78. Szomoru, D., Franx, M., van Dokkum, P.G., Trenti, M., Illingworth, G.D., Labbé, I., **Bouwens, R.J.**, Oesch, P.A., Carollo, C. M. “Confirmation of the Compactness of a $z = 1.91$ Quiescent Galaxy with Hubble Space Telescope’s Wide Field Camera 3.” 2010, *ApJ*, 714, 2445.
77. Trenti, M., Stiavelli, M., **Bouwens, R.J.**, Oesch, P., Shull, J.M., Illingworth, G. D.; Bradley, L. D.; Carollo, C. M. “The Galaxy Luminosity Function During the Reionization Epoch.” 2010, *ApJL*, 714, 202.
76. González, V., Labbé, I., **Bouwens, R.J.**, Illingworth, G., Franx, M., Kriek, M., Brammer, G.B. “The Stellar Mass Density and Specific Star Formation Rate of the Universe at $z \sim 7$.” 2010, *ApJ*, 713, 115.

75. **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., Gonzalez, V. “Discovery of $z \sim 8$ Galaxies in the Hubble Ultra Deep Field from Ultra-Deep WFC3/IR Observations.” 2010, *ApJL*, 709, 133.
74. Castellano, M., Fontana, A., Boutsia, K., Grazian, A., Pentericci, L., **Bouwens, R.**, Dickinson, M., Giavalisco, M., Santini, P., Cristiani, S., *et al.* “Evidence of a fast evolution of the UV luminosity function beyond redshift 6 from a deep HAWK-I survey of the GOODS-S field.” 2010, *A&A*, 511, 20.
73. Oesch, P. A., **Bouwens, R. J.**, Carollo, C. M., Illingworth, G. D., Trenti, M., Stiavelli, M., Magee, D., Labbé, I., Franx, M. “Structure and Morphologies of $z \sim 7-8$ Galaxies from Ultra-deep WFC3/IR Imaging of the Hubble Ultra-deep Field.” 2010, *ApJL*, 709, 21.
72. 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. “ $z \sim 7$ Galaxies in the HUDF: First Epoch WFC3/IR Results.” 2010, *ApJL*, 709, 16.
71. **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. “Very Blue UV-Continuum Slope β of Low Luminosity $z \sim 7$ Galaxies from WFC3/IR: Evidence for Extremely Low Metallicities?” 2010, *ApJL*, 708, 69.
70. Labbé, I., González, V., **Bouwens, R. J.**, Illingworth, G. D., Oesch, P. A., van Dokkum, P. G., Carollo, C. M., Franx, M., Stiavelli, M., Trenti, M., *et al.* “Ultradeep Infrared Array Camera Observations of Sub-L* $z \sim 7$ and $z \sim 8$ Galaxies in the Hubble Ultra Deep Field: the Contribution of Low-Luminosity Galaxies to the Stellar Mass Density and Reionization.” 2010, *ApJ*, 708, 26.
69. Lawrence, J. S., Ashley, M.C.B., Bunker, A., **Bouwens, R.J.**, Burgarella, D., Burton, M.G., Gehrels, N., Glazebrook, K., Pimblet, K., Quimby, R., *et al.* “The Science Case for PILOT II: the Distant Universe.” 2009, *PASA*, 26, 397.
68. Lawrence, J. S., Ashley, M.C.B., Bailey, J., Barrado y Navascues, D., Bedding, T. R., Bland-Hawthorn, J., Bond, I., Boulanger, F., **Bouwens, R.J.**, *et al.* “The Science Case for PILOT I: Summary and Overview,” 2009, *PASA*, 26, 379.
67. **Bouwens, R.J.**, Illingworth, G.D., Franx, M., Chary, R-R., Meurer, G.R., Conselice, C., Ford, H., Giavalisco, M., & van Dokkum, P. “UV Continuum Slope and Dust Obscuration from $z \sim 6$ to $z \sim 2$: The Star Formation Rate Density at High Redshift.” 2009, *ApJ*, 705, 936.
66. Overzier, R.A., Shu, X., Zheng, W., Rettura, A., Zirm, A., **Bouwens, R.J.**, Ford, Holland, Illingworth, G.D., Miley, G.K., Venemans, B.; White, R.L. “Stellar Masses of Lyman Break Galaxies, Ly Emitters, and Radio Galaxies in Overdense Regions at $z = 4-6$.” 2009, *ApJ*, 704, 548.
65. Zheng, W., Bradley, L.D., **Bouwens, R.J.**, Ford, H.C., Broadhurst, T., Jee, M.J., Infante, L., Motta, V., Frye, B., Benitez, N., Illingworth, G.D. “Three Bright Strongly Lensed Galaxies at Redshift $z \sim 6 - 7$ Discovered behind the Clusters Abell 1703 and CL0024+16.” 2009, *ApJ*, 697, 1907.
64. Overzier, R., Guo, Q., Kauffmann, G., De Lucia, G., **Bouwens, R.J.**, Lemson, G. “LCDM predictions for galaxy protoclusters I: The relation between galaxies, protoclusters and quasars at $z \sim 6$.” 2009, *MNRAS*, 394, 577.

63. Bluck, A.F.L., Conselice, C.J., **Bouwens, R.J.**, Daddi, E., Dickinson, M., Papovich, C., Yan, H. “A Surprisingly High Pair Fraction for Extremely Massive Galaxies at $z \sim 3$ in the GOODS NICMOS Survey.” 2009, *MNRAS*, 394, 51.
62. **Bouwens, R.J.**, Illingworth, G.D., Bradley, L.D., Ford, H.C., Franx, M., Zheng, W., Broadhurst, T., Coe, D., & Jee, M.J. “ $z \sim 7$ -10 Galaxies Behind Lensing Clusters: Contrast with Field Search Results.” 2009, *ApJ*, 690, 1764.
61. Buitrago, F., Trujillo, I., Conselice, C.J., **Bouwens, R.J.**, Dickinson, M., Yan, H. “Size evolution of the most massive galaxies at $1.7 < z < 3$ from GOODS NICMOS survey imaging.” 2008, *ApJL*, 687, 61.
60. **Bouwens, R.J.**, Illingworth, G.D., Franx, M., Ford, H.C. “Galaxies at $z \sim 7 - 10$ in the HUDF and GOODS fields: UV Luminosity Functions.” 2008, *ApJ*, 686, 230.
59. van Dokkum, P., Franx, M., Kriek, M., Holden, B., Illingworth, G., Magee, D., **Bouwens, R.**, Marchesini, D., Quadri, R., Rudnick, G., Taylor, E., Toft, Sune. “Confirmation of the remarkable compactness of massive quiescent galaxies at $z \sim 2.3$: early-type galaxies did not form in a simple monolithic collapse.” 2008, *ApJ*, 677, 5.
58. Bradley, L.D., **Bouwens, R.J.**, Ford, H.C., Illingworth, G.D., Jee, M.J., Benitez, N., Franx, M., Frye, B.L., Infante, L., Motta, V., Rosati, P., White, R.L., Zheng, W. “Discovery of a Very Bright Strongly-Lensed Galaxy Candidate at $z \approx 7.6$.” 2008, *ApJ*, 678, 647.
57. Ofek, E.O., Kulkarni, S.R., Rau, A., Cenko, S.B., Peng, E.W., Blakeslee, J.P., Cote, P., Ferrarese, L., Jordan, A., Mei, S., Puzia, T., Bradley, L.D., Magee, D., & **Bouwens, R.J.** “The Environment of M85 optical transient 2006-1: constraints on the progenitor age and mass.” 2007, *ApJ*, 674, 447.
56. Overzier, R., **Bouwens, R.J.**, Cross, N.J.G., Venemans, B., Miley, G.K., Zirm, A.W., Benitez, N., Blakeslee, J.P., Coe, D., Demarco, R., Ford, H., Homeier, N., Illingworth, G.D., Kurk, J.D., Martel, A., Mei, S., Rottgering, H.J.A., Tsvetanov, Z., Zheng, W. “Star formation, morphologies and clustering of galaxies in a radio galaxy protocluster at $z=4.1$.” 2007, *ApJ*, 673, 143.
55. **Bouwens, R.J.**, Illingworth, G.D., Franx, M., Ford, H.C. “UV Luminosity Functions at $z \sim 4, 5, \text{ and } 6$ from the HUDF and other Deep HST ACS Fields: Evolution and Star Formation History.” 2007, *ApJ*, 670, 928.
54. Meurer, G.R., Tsvetanov, Z.I., Gronwall, C., Capak, P., Blakeslee, J.P., Benitez, N., Ford, H.C., Illingworth, G.D., Bradley, L.D., Pirzkal, N., Walsh, J., **Bouwens, R.J.**, Srinivasan, S. “Automated Selection and Characterization of Emission-Line Sources in Advanced Camera for Surveys Wide Field Camera Grism Data.” 2007, *AJ*, 134, 77.
53. Jee, M.J., Ford, H.C., Illingworth, G.D., White, R.L., Broadhurst, T.J., Coe, D.A., Meurer, G.R., van der Wel, A., Benitez, N., Blakeslee, J.P., **Bouwens, R.J.**, Bradley, L.D., Demarco, R., Homeier, N.L., Martel, A.R., Mei, S. “Discovery of a Ringlike Dark Matter Structure in the Core of the Galaxy Cluster Cl 0024+17.” 2007, *ApJ*, 661, 728.
52. Dow-Hygelund, C. C., Holden, B. P., **Bouwens, R. J.**, Illingworth, G. D., van der Wel, A., Franx, M., van Dokkum, P. G., Ford, H., Rosati, P., Magee, D., Zirm, A. “Spectroscopy of $z \sim 6$ i-Dropout Galaxies: Frequency of Ly α Emission and the Sizes of Ly α -emitting Galaxies.” 2007, *ApJ*, 660, 47.

51. **Bouwens, R.J.**, Illingworth, G.D., Blakeslee, J.P., Franx, M. “Galaxies at $z \sim 6$: The Rest-Frame Continuum-*UV* LF and Luminosity Density from 506 HUDF, HUDF Parallel, and GOODS *i*-dropouts.” 2006, *ApJ*, 653, 53.
50. Labbé, I., **Bouwens, R.J.**, Illingworth, G.D., Franx, M. ”Spitzer IRAC Confirmation of z_{850} -Dropout Galaxies in the Hubble Ultra Deep Field: Stellar Masses and Ages at $z \sim 7$.” 2006, *ApJL*, 649, 67.
49. **Bouwens, R.J.**, Illingworth, G.D. ”Rapid evolution of the most luminous galaxies during the first 900 million years.” 2006, *Nature*, 443, 189.
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