

# CURRICULUM VITÆ

## Rychard J. Bouwens

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Date-of-birth: June 17, 1972    Nationality: US Citizen

### 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  $z \sim 4$ ,  $z \sim 5$ , and  $z \sim 6$  thus far
- Pioneered the selection of  $z \sim 7 - 8$   $z$ -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

“Probing the Galaxy Population at  $z \sim 7 - 10$  Using Archival ACS + NICMOS data,” NASA/Space Telescope Science Institute (July 2006 - June 2008), \$103,364; PI share: \$103,364.

“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 2008), \$97,600; PI share: \$68,320.

## Current Grants as co-I

“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 2008), \$585,000; co-I share: \$51,319.

“A Public Deep IRAC Survey in the Extended Chandra Deep Field South,” NASA/Spitzer Space Telescope (July 2006 - June 2008), \$368,700; co-I share: \$15,983.

“Search for Extremely Faint  $z > 7$  Galaxy Population with Cosmic Lenses,” NASA/Space Telescope Science Institute (July 2006 - June 2008), \$140,000; co-I share: \$28,000.

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

## Press Releases Resulting from Work

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”

## Space-based Observational Programs

*Hubble Space Telescope*, PI for one HST General observer program totalling 60 orbits in Cycle 15; co-I on two HST General observer programs totalling 168 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 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).

## Ground-based Observational Programs

*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

## Recent Talks (I-Invited, C-Contributed)

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
10/2006	C-Latest Results from the Deep Astronomical Surveys, Sintra, Portugal
9/2006	C-ACS GTO meeting, Jackson Hole, WY
8/2006	I-The Universe at $z > 6$ , Prague, Czech Republic
8/2006	C-Galaxy Evolution across the Hubble Time, Prague, Czech Republic
5/2006	C-Galaxy Evolution from Large Surveys, Aspen, CO
4/2006	I-University of California, San Diego, San Diego, CA
3/2006	C-Galaxies and Structure Through Cosmic Times, Venice, Italy
3/2006	I-End of the Dark Ages, Baltimore, MD
3/2006	C-University of California, Santa Cruz, Santa Cruz, CA
1/2006	C-Astronomy & Astrophysical Society Meeting, Washington, DC
10/2005	C-ADASS XV, El Escorial, Spain
9/2005	I-ACS GTO meeting, Aspen, CO
6/2005	C-Reionizing the Universe, Groningen, Netherlands
6/2005	C-The Fabulous Destiny of Galaxies, Marseille, CA
5/2005	C-First Light & Reionization, Irvine, CA
3/2005	C-When the UV meets IR: History of Star Formation, La Thuile, Italy
1/2005	C-Astronomy & Astrophysical Society Meeting, San Diego, CA

## 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).

### 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  $\sim 5000$  ACS WFC images taken over the two GOODS fields ( $\sim 2500$  lines of C).

### Teaching Experience

- 2004,2006 Guest Taught Several Lectures in AY240B
- 1994 Teaching Assistant, General Physics
- 1991-1993 Tutor, General Physics
- 1991-1993 Grader, Multivariable Calculus & Calculus I

### 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)

Provided some guidance to UCSC graduate student Shannon Patel in his studies of cluster galaxies at  $z \sim 0.8$

### Refereed Publications

59. 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*, in press.
58. 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*, in press, astro-ph/0601223.
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*, in press.
  56. **Bouwens, R.J.**, Illingworth, G.D., Franx, M., Ford, H.C. "UV Luminosity Functions at  $z \sim 4, 5$ , and 6 from the HUDF and other Deep HST ACS Fields: Evolution and Star Formation History." 2007, *ApJ*, 670, 928.
  55. 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.
  54. 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.
  53. 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 $\alpha$  Emission and the Sizes of Ly $\alpha$ -emitting Galaxies." 2007, *ApJ*, 660, 47.
  52. **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.
  51. 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.
  50. **Bouwens, R.J.**, Illingworth, G.D. "Rapid evolution of the most luminous galaxies during the first 900 million years." 2006, *Nature*, 443, 189.
  49. Overzier, R., **Bouwens, R.J.**, Illingworth, G.D., Franx, M. "Clustering of  $i_{775}$  Dropout Galaxies at  $z \sim 6$  in GOODS and the UDF." 2006, *ApJL*, 648, 50.
  48. Coe, D., Benitez, N., Sanchez, S.F., Jee, M., **Bouwens, R.J.**, Ford, H. "Galaxies in the Hubble Ultra Deep Field. I. Detection, Multiband Photometry, Photometric Redshifts, and Morphology." 2006, *AJ*, 132, 926.
  47. Blakeslee, J.P., Holden, B. P., Franx, M., Rosati, P., **Bouwens, R.J.**, Demarco, R., Ford, H.C., Homeier, N.L., Illingworth, G.D., Jee, M.J., Mei, S., Menanteau, F., Meurer, G.R., Postman, M., Tran, K.-V. H. "Clusters at Half Hubble Time: Galaxy Structure and Colors in RX J0152.7-1357 and MS 1054-03." 2006, *ApJ*, 644, 30.
  46. Golimowski, D. A., Ardila, D. R., Krist, J. E., Clampin, M., Ford, H. C., Illingworth, G. D., Bartko, F., Benitez, N., Blakeslee, J. P., **Bouwens, R. J.**, Bradley, L. D., Broadhurst, T. J.,

- Brown, R. A., Burrows, C. J., Cheng, E. S., Cross, N. J. G., Demarco, R., Feldman, P. D., Franx, M., Goto, T., Gronwall, C., Hartig, G. F., Holden, B. P., Homeier, N. L., Infante, L., Jee, M. J., Kimble, R. A., Lesser, M. P., Martel, A. R., Mei, S., Menanteau, F., Meurer, G. R., Miley, G. K., Motta, V., Postman, M., Rosati, P., Sirianni, M., Sparks, W. B., Tran, H. D., Tsvetanov, Z. I., White, R. L., Zheng, W., Zirm, A. W. “Hubble Space Telescope ACS Multiband Coronagraphic Imaging of the Debris Disk around  $\beta$  Pictoris.” 2006, *AJ*, 131, 3109.
45. Zheng, W., Overzier, R., **Bouwens, R.J.**, White, R.L., Ford, H. C., Benitez, N., Blakeslee, J. P., Bradley, L. D., Jee, M.K., Martel, A.R., Mei, S., Zirm, A.W., Illingworth, G.D., Clampin, M., Hartig, G.F., Ardila, D.R., Bartko, F., Broadhurst, T.J., Brown, R.A., Burrows, C. J., Cheng, E. S., Cross, N. J. G., Demarco, R., Feldman, P.D., Franx, M., Golimowski, D.A., Goto, T., Gronwall, C., Holden, B., Homeier, N., Infante, L., Kimble, R.A., Krist, J.E., Lesser, M.P., Menanteau, F., Meurer, G.R., Miley, G.K., Motta, V., Postman, M., Rosati, P., Sirianni, M., Sparks, W.B., Tran, H.D., Tsvetanov, Z.I. “An Overdensity of Galaxies Near the Most Distant Radio-Loud Quasar.” 2006, *ApJL*, 640, 574.
44. Mei, S., Blakeslee, J. P., Stanford, S. A., Holden, B. P., Rosati, P., Strazzullo, V., Homeier, N., Postman, M., Franx, M., Rettura, A., Ford, H., Illingworth, G. D., Etti, S., **Bouwens, R. J.**, Demarco, R., Martel, A. R., Clampin, M., Hartig, G. F., Eisenhardt, P., Ardila, D. R., Bartko, F., Benitez, N., Bradley, L. D., Broadhurst, T. J., Brown, R. A., Burrows, C. J., Cheng, E. S., Cross, N. J. G., Feldman, P. D., Golimowski, D. A., Goto, T., Gronwall, C., Infante, L., Kimble, R. A., Krist, J. E., Lesser, M. P., Menanteau, F., Meurer, G. R., Miley, G. K., Motta, V., Sirianni, M., Sparks, W. B., Tran, H. D., Tsvetanov, Z. I., White, R. L., Zheng, W. “ Evolution of the Color-Magnitude Relation in High-Redshift Clusters: Blue Early-Type Galaxies and Red Pairs in RDCS J0910+5422.” 2006, *ApJ*, 639, 81.
43. Overzier, R.A., Miley, G.K., **Bouwens, R.J.**, Cross, N.J.G., Zirm, A.W., Benitez, N., Blakeslee, J.P., Clampin, M., Demarco, R., Ford, H.C., Hartig, G.F., Illingworth, G.D., Martel, A.R., Rottgering, H.J.A., Venemans, B., Ardila, D.R., Bartko, F., Bradley, L.D., Broadhurst, T.J., Coe, D., Feldman, P.D., Franx, M., Golimowski, D.A., Goto, T., Gronwall, C., Holden, B., Homeier, N., Infante, L., Kimble, R.A., Krist, J.E., Mei, S., Menanteau, F., Meurer, G.R., Motta, V., Postman, M., Rosati, P., Sirianni, M., Sparks, W.B., Tran, H.D., Tsvetanov, Z.I., White, R.L., Zheng, W. “Clustering of Star-forming Galaxies Near a Radio Galaxy at  $z = 5.2$ .” 2006, *ApJ*, 637, 58.
42. Scannapieco, E., Silk, J.S., **Bouwens, R.J.** “AGN Feedback Causes Downsizing.” 2005, *ApJL*, 635, 13.
41. Dow-Hygelund, C. C., Holden, B. P., **Bouwens, R. J.**, van der Wel, A., Illingworth, G. D., Zirm, A., Franx, M., Rosati, P., Ford, H., van Dokkum, P. G., Stanford, S. A., Eisenhardt, P., Fazio, G. G. “UV Continuum Spectroscopy of a  $6L^*$   $z = 5.5$  Starburst Galaxy.” 2005, *ApJL*, 630, 137.
40. Zirm, A.W., Overzier, R. A., Miley, G. K., Blakeslee, J. P., Clampin, M., De Breuck, C., Demarco, R., Ford, H. C., Hartig, G. F., Homeier, N., Illingworth, G. D., Martel, A. R., Rottgering, H. J. A., Venemans, B., Ardila, D. R., Bartko, F., Benitez, N., **Bouwens, R. J.**, Bradley, L. D., Broadhurst, T. J., Brown, R. A., Burrows, C. J., Cheng, E. S., Cross, N. J. G., Feldman, P. D., Franx, M., Golimowski, D. A., Goto, T., Gronwall, C., Holden, B., Infante, L., Kimble, R. A., Krist, J. E., Lesser, M. P., Mei, S., Menanteau, F., Meurer, G. R., Motta, V., Postman, M., Rosati, P., Sirianni, M., Sparks, W. B., Tran, H. D., Tsvetanov, Z. I., White, R.

- L., Zheng, W. “Feedback and Brightest Cluster Galaxy Formation: ACS Observations of the Radio Galaxy TN J1338-1942 at  $z = 4.1$ .” 2005, *ApJ*, 630, 68.
39. Ardila, D. R., Lubow, S. H., Golimowski, D. A., Krist, J. E., Clampin, M., Ford, H. C., Hartig, G. F., Illingworth, G. D., Bartko, F., Benitez, N., Blakeslee, J. P., **Bouwens, R. J.**, Bradley, L. D., Broadhurst, T. J., Brown, R. A., Burrows, C. J., Cheng, E. S., Cross, N. J. G., Feldman, P. D., Franx, M., Goto, T., Gronwall, C., Holden, B., Homeier, N., Infante, L., Kimble, R. A., Lesser, M. P., Martel, A. R., Menanteau, F., Meurer, G. R., Miley, G. K., Postman, M., Sirianni, M., Sparks, W. B., Tran, H. D., Tsvetanov, Z. I., White, R. L., Zheng, W., Zirm, A. W. “A Dynamical Simulation of the Debris Disk around HD 141569A.” 2005, *ApJ*, 627, 986.
38. Thompson, R. I., Illingworth, G., **Bouwens, R.J.**, Dickinson, M., Eisenstein, D., Fan, X., Franx, M., Riess, A., Rieke, M.J., Schneider, G., Stobie, E., Toft, S., van Dokkum, P. “The Near-Infrared Camera and Multi-Object Spectrometer Ultra Deep Field: Observations, Data Reduction, and Galaxy Photometry.” 2005, *AJ*, 130, 1.
37. Holden, B. P., Blakeslee, J. P., Postman, M., Illingworth, G. D., Demarco, R., Franx, M., Rosati, P., **Bouwens, R.J.**, Martel, A. R., Ford, H., Clampin, M., Hartig, G. F., Benitez, N., Cross, N. J. G., Homeier, N., Lidman, C., Menanteau, F., Zirm, A., Ardila, D. R., Bartko, F., Bradley, L. D., Broadhurst, T. J., Brown, R. A., Burrows, C. J., Cheng, E. S., Feldman, P. D., Golimowski, D. A., Goto, T., Gronwall, C., Infante, L., Kimble, R. A., Krist, J. E., Lesser, M. P., Magee, D., Mei, S., Meurer, G. R., Miley, G. K., Motta, V., Sirianni, M., Sparks, W. B., Tran, H. D., Tsvetanov, Z. I., White, R. L., Zheng, W. “Evolution in the Cluster Early-Type Galaxy Size-Surface Brightness Relation at  $z \sim 1$ .” 2005, *ApJ*, 626, 809.
36. Toft, S., van Dokkum, P., Franx, M., Thompson, R.I., Illingworth, G.D., **Bouwens, R.J.**, Kriek, M. “Distant Red Galaxies in the Hubble Ultra Deep Field.” 2005, *ApJL*, 624, 9.
35. **Bouwens, R.J.**, Illingworth, G.D., Thompson, R.I., Franx, M. “Constraints on  $z \sim 10$  Galaxies from the Deepest NICMOS Fields.” 2005, *ApJL*, 624, 5.
34. Koo, D.C., Simard, L., Willmer, C.N.A., Gebhardt, K., **Bouwens, R.J.**, Kauffmann, G., Crosby, T., Faber, S.M., Harker, J., Sarajedini, V.L., Vogt, N.P. Weiner, B.J., Phillips, A.J., Im, M., Wu, K. L. “The DEEP Groth Strip Survey. VIII. The Evolution of Luminous Field Bulges at Redshift  $z \sim 1$ .” 2005, *ApJS*, 157, 175.
33. Postman, M., Franx, M., Cross, N. J. G., Holden, B., Ford, H. C., Illingworth, G. D., Goto, T., Demarco, R., Rosati, P., Blakeslee, J. P., Tran, K.-V., Benitez, N., Clampin, M., Hartig, G. F., Homeier, N., Ardila, D. R., Bartko, F., **Bouwens, R. J.**, Bradley, L. D., Broadhurst, T. J., Brown, R. A., Burrows, C. J., Cheng, E. S., Feldman, P. D., Golimowski, D. A., Gronwall, C., Infante, L., Kimble, R. A., Krist, J. E., Lesser, M. P., Martel, A. R., Mei, S., Menanteau, F., Meurer, G. R., Miley, G. K., Motta, V., Sirianni, M., Sparks, W. B., Tran, H. D., Tsvetanov, Z. I., White, R. L., Zheng, W. “The Morphology-Density Relation in  $z \sim 1$  Clusters.” 2005, *ApJ*, 623, 721.
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