

Benjamin J. Weiner
Curriculum Vitae

Address

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Current Position

July 2013 – present: Associate Astronomer, Steward Observatory Infrared Astronomy group.
Sept. 2006 – July 2013: Assistant Astronomer, Steward Observatory, with the Infrared Group and MIPS (Multiband Imaging Photometer for Spitzer) team.

Education

Ph.D. in Physics and Astronomy, Rutgers University, NJ, 1998. Dissertation Topic: *The Dynamics of Barred Spiral Galaxies: Masses and Pattern Speeds* (Supervisors: Dr. T.B. Williams, Dr. J.A. Sellwood).

B.A., Physics and English Literature, Swarthmore College, Swarthmore, PA, 1989.

Research Interests and Expertise

Galaxy formation and evolution through observations of galaxy properties including star formation indicators, luminosity, structure, kinematics, outflows, from local to redshift $z > 1$; redshift surveys; dark energy/baryon acoustic oscillation surveys

Structure and dynamics of local galaxies: properties of dark matter halos; origin and evolution of bars and bulges in disk galaxies; photometric and kinematic observations, in optical and radio; computational simulations

Near and far infrared astronomy; optical and infrared spectroscopy

The outer galaxy; gas in galactic halos, the Magellanic Stream, and high-velocity clouds; galactic winds and outflows

Instrumentation, especially imaging spectroscopy, including Fabry-Perot and integral field techniques; experience with building, conducting pre-ship review, commissioning, and writing software for the Maryland-Magellan Tunable Filter

Astronomical software and data reduction techniques, including crowded-field photometry, multi-slit, 3-D, and slitless spectroscopy, analysis of large survey and 3-D datasets, robust statistics; programming in multiple languages/platforms

Research Experience

2004 – 2006 Postdoctoral researcher, University of Maryland, Maryland-Magellan Tunable Filter instrument project, PI: Dr. Sylvain Veilleux

2000 – 2004 Postdoctoral researcher, DEEP Project at UCO/Lick Observatory, affiliated with the Deep Extragalactic Evolutionary Probe (DEEP) Project (<http://deep.ucolick.org>)

1998 – 2000 Barbara McClintock Fellow, Observatories of the Carnegie Institution of Washington

1992 – 1997 Ph.D. research with Drs. T.B. Williams & J.A. Sellwood: *The Dynamics of Barred Spiral Galaxies: Masses and Pattern Speeds*

1990 – 1991 research assistant, neurobiology, in lab of Dr. Peter Sterling, University of Pennsylvania School of Medicine

Teaching Experience

Teaching Assistant, Rutgers University, 1993–1994: Instructor for Introductory Physics Recitation (4 sections, ~ 25 students each). Instructor for Introductory Physics Lab (3 sections, ~ 25 students each)

Astronomy Public Observing and Open Houses, Rutgers University, 1993–1997: Education and outreach – rooftop observing for introductory classes and the public

Physics Laboratory Manager, Simmons College, Boston, MA, 1989–1990

Collaborators and Students

Graduate students with whom I have collaborated and assisted in their thesis research:

Kathy Cooksey (UC Santa Cruz)

Michael Cooper (UC Berkeley)

Stephanie Juneau (Arizona)

Susan Kassin (OSU)

Nick Konidakis (UC Santa Cruz)

Lihwai Lin (UCSC/National Taiwan Univ.)

Kyle Penner (Arizona)

Kate Rubin (UC Santa Cruz)

Wiphu Rujopakarn (Arizona)

Lei Xu (Arizona)

Renbin Yan (UC Berkeley)

Collaborators (partial): K. Bundy (IPMU), H.-W. Chen (Chicago), A.L. Coil (UCSD), M.C. Cooper (UC Irvine), M. Davis (Berkeley), A. Dey (NOAO), M.E. Dickinson (NOAO), S.M. Faber (UCO/Lick), M. Geha (Yale), P. Guhathakurta (UCO/Lick), B. Jannuzi (Arizona), S.A. Kassin (STScI), D.C. Koo (UCO/Lick), L. Lin (ASIAA), J.M. Lotz (STScI), N. Mostek (LBL), K.G. Noeske (STScI), C. Pacifici (MPIA/Seoul), C. Papovich (Texas A&M), J.X. Prochaska (UCO/Lick), G.H. Rieke (Arizona), A. Riess (JHU/STScI), S. Rodney (JHU), K. Rubin (MPIA), J.A. Sellwood (Rutgers), L.J. Tacconi (MPE), C.A. Tremonti (Wisconsin), J.R. Trump (Penn State), J.H. van Gorkom (Columbia), S. Veilleux (Maryland), S.N. Vogel (Maryland), R. Wechsler (Stanford), T.B. Williams (Rutgers/SAAO), C.N.A. Willmer (Arizona), R. Yan (Kentucky), Y. Yang (MPIA), A. Zabludoff (Arizona), D. Zaritsky (Arizona)

Collaborations, Observing, and Projects

Member of the DEEP2, CANDELS, SDSS-3/BOSS and PHIBSS collaborations

Principal Investigator of successful proposals with:

Hubble Space Telescope • Herschel Space Observatory • Atacama Large Millimeter Array • LBT (Large Binocular Telescope) 2x8-m telescope • Keck I 10-m • MMT 6.5-m • Magellan II 6.5-m • Las Campanas Observatory 2.5-m, 1-m • NRAO Very Large Array • Cerro Tololo Interamerican Observatory 4-meter, 1.5-m, 0.9-m • XMM-Newton

PI of HST/WFC3 proposal GO-11600, Cycle 17, “Star formation, extinction, and metallicity at $0.7 < z < 1.5$: H-alpha fluxes and size from a grism survey of GOODS-N”

PI of Herschel proposal accepted in Open Time 1 call, “Physical conditions in disk U/LIRGs from [C II] and [O I] spectra - low-z analogs for high-z starforming galaxies”

PI of Herschel proposal accepted in Open Time 2 call, “Physical conditions in disk U/LIRGs from far-IR line flux ratios - low-z analogs for high-z starforming galaxies”

Co-I on successful proposals for Hubble, Spitzer Space Telescope, Keck 10-m, MMT, Magellan, Las Campanas, Subaru, ESO/VLT, WIYN, Kitt Peak 4-m, the VLA, and FUSE

Co-I on Hubble Space Telescope multi-cycle Treasury program, CANDELS: Cosmic Assembly Near-IR Deep Extragalactic Legacy Survey, PIs: Sandra Faber and Harry Ferguson

Co-I/Deputy PI and data lead for Spitzer Legacy program, MAGES: the MIPS AGN and Galaxy Evolution Survey, PI: Buell Jannuzi

Co-I on Spitzer Warm Mission large survey, SEDS, the Spitzer Extended Deep Survey, PI: Giovanni Fazio

Co-I on HST/ACS Large project, Extended Groth Strip imaging survey, PI: Marc Davis

Collaborator on successful NSF Advanced Technologies in Instrumentation proposal for a Fabry-Perot/tunable filter system for the Magellan 6.5-meter telescope, PI Sylvain Veilleux (Maryland)

Observing experience at LBT 2x8-m; Keck 10-m; Magellan 6.5-m; MMT 6.5-m; WIYN 3.6-m; Kitt Peak 4-m; Las Campanas 1-m, 2.5-m; CTIO 0.9-m, 1.5-m, 4-m; Palomar 1.5-m; NRAO VLA telescopes

External Funding

PI, HST program GO-11600, “Star formation, extinction, and metallicity at $0.7 < z < 1.5$: H-alpha fluxes and size from a grism survey of GOODS-N,” \$204,593, 2009-2012

PI, Herschel program OT2_bweiner_2, “Physical conditions in disk U/LIRGs from far-IR line flux ratios - low-z analogs for high-z starforming galaxies,” \$98,467, 2012-14

PI, Herschel program OT1_bweiner_1, “Physical conditions in disk U/LIRGs from [C II] and [O I] spectra - low-z analogs for high-z starforming galaxies,” \$48,566, 2011-2013

Co-I, Herschel program OT2_mdickins_1, “Herschel+CANDELS: Unraveling the physical processes that regulate star formation and AGN activity in ordinary galaxies at $z=2$,” PI Mark Dickinson, \$30,000, 2012-14

Co-I, HST program GO-12547, “Measuring the Star-Formation Efficiency of Galaxies at $z > 1$ with Sizes and SFRs from HST Grism Spectroscopy,” PI Michael Cooper, \$38,406, 2012-2014

Co-I, HST multi-cycle Treasury program 12060, “CANDELS: Cosmic Assembly Near-IR Deep Extragalactic Legacy Survey,” PIs Sandra Faber & Harry Ferguson, \$76,424, 2010-2015

Co-I, HST program GO-12945, “Spatially Resolved Observations of Gas Stripping in Intermediate Redshift Clusters and Groups,” PI Gregory Rudnick, ~ \$19,000, 2013

Awards, Fellowships, and Professional Service

Referee of articles for the *Astrophysical Journal Letters*, *Astrophysical Journal*, *Monthly Notices of the R.A.S.*, and *Astronomy & Astrophysics*

Spitzer Space Telescope Time Allocation Committee

Hubble Space Telescope Telescope Allocation Committee
 NOAO Time Allocation Committee
 Steward Observatory Telescope Allocation Committee
 NSF-AST proposal panel reviewer
 Reviewer for NRAO's Green Bank Telescope
 Organizer, Steward Observatory Galaxy Group lunch talks, 2012-2013
 Co-organizer, Steward Observatory Journal Club and Galaxy Group, 2008
 1998 – 2000 Barbara McClintock Postdoctoral Fellowship, OCIW.
 1994 – 1996 Research Assistantship at Rutgers University.
 1993 – 1994 Teaching Assistantship at Rutgers University.
 1991 – 1993 U.S. Department of Education Fellowship, Rutgers University.

Selected Colloquia and Talks

Max-Planck Institut fur Astronomie, Heidelberg, 2013
 University of Wisconsin, 2012
 Kavli Institute for Cosmological Physics, University of Chicago, 2011
 “IFUs in the Era of JWST,” STScI, Baltimore, 2010
 “Extreme Starbursts in the Local Universe,” Granada, Spain, 2010
 University of Pittsburgh, 2010
 University of Texas, 2009
 “Unveiling the Mass: Extracting and Interpreting Galaxy Masses,” Kingston, Ontario, 2009
 Arizona State University, 2008
 “Galactic Structure and the Structure of Galaxies,” invited review, Ensenada, Mexico, 2008
 UC Santa Barbara, 2007
 University of Illinois, Urbana-Champaign, 2007

Publications

h-index from NASA ADS: 48

Refereed Publications: First-Author Papers

*† B.J. Weiner et al., 2009, “Ubiquitous Outflows in DEEP2 Spectra of Star-Forming Galaxies at $z=1.4$,” *ApJ*, 692, 187

B.J. Weiner et al., 2007, “AEGIS: Extinction and Star Formation Tracers from Line Emission,” *ApJL*, 660, L39

*B.J. Weiner et al., 2006, “A Survey of Galaxy Kinematics to $z \sim 1$ in the TKRS/GOODS-N Field. I. Rotation and Dispersion Properties,” *ApJ*, 653, 1027

*B.J. Weiner et al., 2006, “A Survey of Galaxy Kinematics to $z \sim 1$ in the TKRS/GOODS-N Field. II. Evolution in the Tully-Fisher Relation,” *ApJ*, 653, 1049

*†B.J. Weiner et al., 2005, “The DEEP Groth Strip Galaxy Redshift Survey. III. Redshift Catalog and Properties of Galaxies,” *ApJ*, 620, 595

B.J. Weiner, T.B. Williams, J.H. van Gorkom, & J.A. Sellwood, 2001, “The Disk and Dark Halo

*Paper is one whose scientific contribution and my involvement I would especially like to highlight.

†Paper has over 100 citations.

Mass of the Barred Galaxy NGC 4123. I. Observations,” *ApJ*, 546, 916

*†B.J. Weiner, J.A. Sellwood, & T.B. Williams, 2001, “The Disk and Dark Halo Mass of the Barred Galaxy NGC 4123. II. Fluid-Dynamical Models,” *ApJ*, 546, 931

B.J. Weiner & J.A. Sellwood, 1999, “The Properties of the Galactic Bar Implied by Gas Kinematics in the Inner Milky Way,” *ApJ*, 524, 112

*†B.J. Weiner & T.B. Williams, 1996, “H α Emission from the Magellanic Stream: Evidence for an Extended Gaseous Galactic Halo,” *AJ*, 111, 1156

Refereed Publications: Second-Author Papers

*S.A. Kassin, B.J. Weiner, S.M. Faber, J.P. Gardner, C.N.A. Willmer et al., 2012, “The Epoch of Disk Settling: $z \sim 1$ to Now,” *ApJ*, 758, 106

*J.R. Trump, B.J. Weiner et al., 2011, “A CANDELS WFC3 Grism Study of Emission-Line Galaxies at $z \sim 2$: A Mix of Nuclear Activity and Low-Metallicity Star Formation,” *ApJ*, 743, 144

*A.L. Coil, B.J. Weiner, D.E. Holz, M.C. Cooper, R. Yan, J. Aird, 2011, “Outflowing Galactic Winds in Post-starburst and AGN Host Galaxies at $0.2 < z < 0.8$,” *ApJ*, 743, 46

J.X. Prochaska, B.J. Weiner, H.-W. Chen, K.L. Cooksey, J.S. Mulchaey, 2011, “Probing the IGM/Galaxy Connection. IV. The LCO/WFCCD Galaxy Survey of 20 Fields Surrounding UV-bright Quasars,” *ApJS*, 193, 28

*J.X. Prochaska, B.J. Weiner, H.-W. Chen, J.S. Mulchaey, K.L. Cooksey, 2011, “Probing the IGM/Galaxy Connection V: On the Origin of Ly α and OVI Absorption at $z < 0.2$,” *ApJ*, 740, 91

*K.H.R. Rubin, B.J. Weiner, D.C. Koo, C.L. Martin, J.X. Prochaska, A.L. Coil, 2010, “The Persistence of Cool Galactic Winds in High Stellar Mass Galaxies Between $z \sim 1.4$ and ~ 1 ,” *ApJ*, 719, 1503

*S. Veilleux, B.J. Weiner, D.S.N. Rupke, M.A. McDonald, C. Birk, J. Bland-Hawthorn, A. Dressler, T. Hare, D. Osip, C. Pietraszewski, S. N. Vogel, 2010, “MMTF: The Maryland-Magellan Tunable Filter,” *AJ*, 139, 145

*S.A. Kassin, B.J. Weiner et al., 2007, “The Stellar Mass Tully-Fisher Relation to $z = 1.2$ from AEGIS,” *ApJL*, 660, L35

*†K.G. Noeske, B.J. Weiner et al., 2007, “Star Formation in AEGIS Field Galaxies since $z=1.1$: The Dominance of Gradually Declining Star Formation, and the Main Sequence of Star-forming Galaxies,” *ApJL* 660, L47

J.X. Prochaska, B.J. Weiner, H.-W. Chen, J.S. Mulchaey, 2006, “Probing the Intergalactic Medium-Galaxy Connection toward PKS 0405-123. III. The Galaxy Survey and Correlations with O VI Absorbers,” *ApJ*, 643, 680

Refereed Publications: Co-Authored Papers[‡]

S.L. Finkelstein et al., 2013, “A galaxy rapidly forming stars 700 million years after the Big Bang at redshift 7.51,” *Nature*, 502, 524

K.A. Kornei, A.E. Shapley, C.L. Martin, A.L. Coil, J.M. Lotz, B.J. Weiner, 2013, “Fine-structure Fe II* Emission and Resonant Mg II Emission in $z \sim 1$ Star-forming Galaxies,” *ApJ*, 774, 50

M.V. Maseda et al., 2013, “Confirmation of Small Dynamical and Stellar Masses for Extreme Emission Line Galaxies at $z \sim 2$,” *ApJL*, 778, L22

A.D. Goulding et al., 2013, “Tracing the evolution of Active Galactic Nuclei host galaxies over the last 9 Gyrs of cosmic time,” arXiv:1310.8298

D.O. Jones et al., 2013, “The Discovery of the Most Distant Known Type Ia Supernova at Redshift 1.914,” *ApJ*, 768, 166

S. Alberts et al., 2013, “The evolution of dust-obscured star formation activity in galaxy clusters relative to the field over the last 9 billion years,” *MNRAS*, in press

T. Dahlen et al. 2013, “A Critical Assessment of Photometric Redshift Methods: A CANDELS Investigation,” *ApJ*, 775, 93

*J.A. Newman et al., 2013, “The DEEP2 Galaxy Redshift Survey: Design, Observations, Data Reduction, and Redshifts,” *ApJS*, 208, 5

H.V. Shipley, C. Papovich, G.H. Rieke, A. Dey, B.T. Jannuzi, J. Moustakas, B.J. Weiner, 2013, “Spitzer Spectroscopy of Infrared-luminous Galaxies: Diagnostics of Active Galactic Nuclei and Star Formation and Contribution to Total Infrared Luminosity,” *ApJ*, 769, 75

R. Genzel et al., 2013, “Phibss: Molecular Gas, Extinction, Star Formation, and Kinematics in the $z = 1.5$ Star-forming Galaxy EGS13011166,” *ApJ*, 773, 68

H. Shim, M. Im, J. Ko, Y. Jeon, M. Karouzos, S.J. Kim, H.M. Lee, C. Papovich, C. Willmer, B.J. Weiner, 2013, “Hectospec and Hydra Spectra of Infrared Luminous Sources in the AKARI North Ecliptic Pole Survey Field,” *ApJS*, 207, 37

A. Galametz et al., 2013, “CANDELS Multiwavelength Catalogs: Source Identification and Photometry in the CANDELS UKIDSS Ultra-deep Survey Field,” *ApJS*, 206, 10

S.F. Newman et al., 2013, “Nebular Excitation in $z \sim 2$ Star-forming Galaxies from the SINS and LUCI Surveys: The Influence of Shocks and AGN,” arXiv:1306.6676

C.P. Ahn et al., 2013, “The Tenth Data Release of the Sloan Digital Sky Survey: First Spectroscopic Data from the SDSS-III Apache Point Observatory Galactic Evolution Experiment,” arXiv:1307.7735

M.L.N. Ashby et al., 2013, “SEDS: The Spitzer Extended Deep Survey. Survey Design, Photometry, and Deep IRAC Source Counts,” *ApJ*, 769, 80

*W. Rujopakarn, G.H. Rieke, B.J. Weiner, M. Rex, G.L. Walth, J.S. Kartaltepe, 2013, “Mid-Infrared Determination of Total Infrared Luminosity and Star Formation Rates of Local and High-Redshift Galaxies,” *ApJ*, 767, 73

*C. Pacifici, S.A. Kassin, B.J. Weiner, S. Charlot, J.P. Gardner, 2013, “The rise and fall of the star formation histories of blue galaxies at redshifts $0.2 < z < 1.4$,” *ApJL*, 762, L15

[‡]The DEEP2, CANDELS, and SDSS survey conventions are to list authors who have made the major direct contributions to a paper in order of effort, followed by the remainder of the contributors in alphabetical tiers. Long author lists here are partially spelled out for selected papers in which I had major direct involvement.

*L.J. Tacconi et al. 2013, “PHIBSS: molecular gas content and scaling relations in $z \sim 1 - 3$ massive, main-sequence star forming galaxies,” *ApJ*, 768, 74

*J.R. Trump, N.P. Konidaris, G. Barro, D.C. Koo, D.D. Kocevski, S. Juneau, B.J. Weiner, S.M. Faber, I.S. McLean, R. Yan, P.G. Perez-Gonzalez, V. Villar, 2013, “Testing Diagnostics of Nuclear Activity and Star Formation in Galaxies at $z > 1$,” *ApJL*, 763, L6

N. Mostek, A.L. Coil, M.C. Cooper, M. Davis, J.A. Newman, B.J. Weiner, 2013, “The DEEP2 Galaxy Redshift Survey: Clustering Dependence on Galaxy Stellar Mass and Star Formation Rate at $z \sim 1$,” *ApJ*, 767, 89

†K.S. Dawson et al., 2013, “The Baryon Oscillation Spectroscopic Survey of SDSS-III,” *AJ*, 145, 10

D.P. Palamara, M.J.I. Brown, B.T. Jannuzi, A. Dey, D. Stern, K.A. Pimbblet, B.J. Weiner, M.L.N. Ashby, C.S. Kochanek, A. Gonzalez, M. Brodwin, E. Le Floch, M. Rieke, 2013, “The Clustering of Extremely Red Objects,” *ApJ*, 764, 31

J. Woo et al., 2013, “Dependence of Quenching of Central and Satellite Galaxies at $z=0$ and $z=1$ on Halo Mass and Distance from its Centre,” *MNRAS*, 428, 3306

J. Freundlich et al., 2013, “Towards a resolved Kennicutt-Schmidt law at high redshift,” *A&A*, 533, 130

S. Juneau et al., 2013, “Widespread and Hidden Active Galactic Nuclei in Star-Forming Galaxies at Redshift > 0.3 ,” *ApJ*, 764, 176

J.-S. Huang et al., 2013, “Multi-Wavelength Study of a Complete IRAC 3.6 micron-Selected Galaxy Sample: a Fair Census of Red and Blue Populations at Redshifts 0.4-1,” *ApJ*, 766, 21

H. Yan et al., 2012, “Luminous and High Stellar Mass Candidate Galaxies at $z \simeq 8$ Discovered in the Cosmic Assembly Near-Infrared Deep Extragalactic Legacy Survey,” *ApJ*, 761, 177

E. Cheung et al., 2012, “The Dependence of Quenching upon the Inner Structure of Galaxies at $0.5 < z < 0.8$ in the DEEP2/AEGIS Survey,” *ApJ*, 760, 131

W. Rujopakarn, G.H. Rieke, C. Papovich, B.J. Weiner, J.R. Rigby, M. Rex, F. Bian, O.P. Kuhn, D. Thompson, 2012, “Large Binocular Telescope and Spitzer Spectroscopy of Star-forming Galaxies at $1 < z < 3$: Extinction and Star Formation Rate Indicators,” *ApJ*, 755, 168

M.C. Cooper, R. Yan, M. Dickinson, S. Juneau, J.M. Lotz, J.A. Newman, C. Papovich, S. Salim, G. Walth, B.J. Weiner, C.N.A. Willmer, 2012, “The Arizona CDFS Environment Survey (ACES): A Magellan/IMACS Spectroscopic Survey of the Chandra Deep Field-South,” *MNRAS*, 425, 2116

K. Sheth, J. Melbourne, D.M. Elmegreen, B.G. Elmegreen, E. Athanassoula, R.G. Abraham, B.J. Weiner, 2012, “Hot Disks and Delayed Bar Formation,” *ApJ*, 758, 136

J.S. Kartaltepe et al., 2012, “GOODS-Herschel and CANDELS: The Morphologies of Ultraluminous Infrared Galaxies at $z \sim 2$,” *ApJ*, 757, 23

Jingwen Wu et al., 2012, “Submillimeter Follow-up of WISE-selected Hyperluminous Galaxies,” *ApJ*, 756, 96

D.L. Nidever et al., 2012, “The Apache Point Observatory Galactic Evolution Experiment: First Detection of High-velocity Milky Way Bar Stars,” *ApJL*, 755, L25

†SDSS-III Collaboration, C.P. Ahn et al., 2012, “The Ninth Data Release of the Sloan Digital Sky Survey: First Spectroscopic Data from the SDSS-III Baryon Oscillation Spectroscopic Survey,” *ApJS*, 203, 21

*S. Wuyts et al., 2012, “Smooth(er) Stellar Mass Maps in CANDELS: Constraints on the Longevity of Clumps in High-redshift Star-forming Galaxies,” *ApJ*, 753, 114

*S.A. Rodney, A.G. Riess, T. Dahlen, L.-G. Strolger, H.C. Ferguson, J. Hjorth, T.F. Fredriksen, B.J. Weiner et al., 2012, “A Type Ia Supernova at Redshift 1.55 in Hubble Space Telescope Infrared Observations from CANDELS,” *ApJ*, 746, 5

*J.M. Comerford, B.F. Gerke, D. Stern, M.C. Cooper, B.J. Weiner, J.A. Newman, F. Harrison, K. Madsen, R.S. Barrows, 2012, “Kiloparsec-scale Spatial Offsets in Double-peaked Narrow-line AGNs. I. Markers for Selection of Compelling Dual AGN Candidates,” *ApJ*, 753, 42

J.E. Rhoads, P. Hibon, S. Malhotra, M. Cooper, B.J. Weiner, 2012, “A Ly α Galaxy at Redshift $z = 6.944$ in the COSMOS Field,” *ApJL*, 752, L28

C.L. Martin, A.E. Shapley, A.L. Coil, K.A. Kornei, K. Bundy, B.J. Weiner, K.G. Noeske, D. Schiminovich, 2012, “Demographics and Physical Properties of Gas Out/Inflows at $0.4 < z < 1.4$,” *ApJ*, 760, 127

T. Wang et al., 2012, “CANDELS: Correlations of Spectral Energy Distributions and Morphologies with Star formation Status for Massive Galaxies at $z \sim 2$,” *ApJ*, 752, 134

R. Griffith et al., 2012, “The Advanced Camera for Surveys General Catalog: Structural Parameters for Approximately Half a Million Galaxies,” *ApJS*, 200, 9

B.F. Gerke et al., 2012, “The DEEP2 Galaxy Redshift Survey: The Voronoi-Delaunay Method Catalog of Galaxy Groups,” *ApJ*, 751, 50

C. Papovich et al., 2012, “CANDELS Observations of the Structural Properties of Cluster Galaxies at $z = 1.62$,” *ApJ*, 750, 93

N. Smith et al., 2012, “Systematic Blueshift of Line Profiles in the Type II_n Supernova 2010jl: Evidence for Post-Shock Dust Formation?,” *AJ*, 143, 17

N. Mostek, A.L. Coil, J. Moustakas, S. Salim, B.J. Weiner, 2012, “Calibrating the Star Formation Rate at $z=1$ from Optical Data,” *ApJ*, 746, 124

*M.C. Cooper et al., 2012, “The DEEP3 Galaxy Redshift Survey: The Impact of Environment on the Size Evolution of Massive Early-type Galaxies at Intermediate Redshift,” *MNRAS*, 419, 3018

R. Genzel et al., 2012, “The metallicity dependence of the $CO \rightarrow H_2$ conversion factor in $z > 1$ star forming galaxies,” *ApJ*, 746, 69

J.W. Twite, C. Conselice, F. Buitrago, K. Noeske, B.J. Weiner, J. Acosta-Pulido, A. Bauer, 2012, “H-alpha Star Formation Rates in Massive Galaxies at $z \sim 1$,” *MNRAS*, 420, 1061

Y. Ono, M. Ouchi, B. Mobasher, M. Dickinson, K. Penner, K. Shimasaku, B.J. Weiner, J.S. Kartaltepe, K. Nakajima, H. Nayyeri, D. Stern, N. Kashikawa, H. Spinrad, 2012, “Spectroscopic Confirmation of Three z -Dropout Galaxies at $z = 6.844 - 7.213$: Lyman Alpha Demography of $z \sim 7$ Galaxies,” *ApJ*, 744, 83

J. Ko et al., 2012, “AKARI Observation of the North Ecliptic Pole (NEP) Supercluster at $z = 0.087$: Mid-infrared View of Transition Galaxies,” *ApJ*, 745, 181

A. van der Wel, A.N. Straughn, H.-W. Rix, S.L. Finkelstein, A.M. Koekemoer, B.J. Weiner et al., 2011, “Extreme Emission Line Galaxies in CANDELS: Broad-Band Selected, Star-Bursting Dwarf Galaxies at $z > 1$,” *ApJ*, 742, 111

†N.A. Grogin et al., 2011, “CANDELS: The Cosmic Assembly Near-infrared Deep Extragalactic Legacy Survey,” *ApJS*, 197, 35

[†]A.M. Koekemoer et al., 2011, “CANDELS: The Cosmic Assembly Near-infrared Deep Extragalactic Legacy Survey - The Hubble Space Telescope Observations, Imaging Data Products and Mosaics,” *ApJS*, 197, 36

S.A. Kassin et al., 2011, “Oxford SWIFT integral field spectrograph and multiwavelength observations of the Eagle galaxy at $z=0.77$,” *MNRAS*, 417, 2882

R. Yan et al., 2011, “AEGIS: Demographics of X-ray and Optically Selected Active Galactic Nuclei,” *ApJ*, 728, 38

A.A. Dutton, F.C. van den Bosch, S.M. Faber, L. Simard, S.A. Kassin, D.C. Koo, K. Bundy, J. Huang, B.J. Weiner, M.C. Cooper, J.A. Newman, M. Mozena, A.M. Koekemoer, 2011, “On the evolution of the velocity-mass-size relations of disc-dominated galaxies over the past 10 billion years,” *MNRAS*, 410, 1660

*[†]R. Genzel et al., 2010, “A study of the gas-star formation relation over cosmic time,” *MNRAS*, 407, 2091

*[†]L.J. Tacconi et al., 2010, “High molecular gas fractions in normal massive star-forming galaxies in the young Universe,” *Nature*, 463, 781

Y.-M. Chen, C.A. Tremonti, T.M. Heckman, G. Kauffmann, B.J. Weiner, J. Brinchmann, J. Wang, 2010, “Absorption-line Probes of the Prevalence and Properties of Outflows in Present-day Star-forming Galaxies,” *AJ*, 140, 445

M.C. Cooper et al., 2010, “Absence of evidence is not evidence of absence: the colour-density relation at fixed stellar mass persists to $z \sim 1$,” *MNRAS*, 409, 337

*M.D. Covington, S.A. Kassin, A.A. Dutton, B.J. Weiner et al., 2010, “Evolution of the Stellar Mass Tully-Fisher Relation Evolution in Disk Galaxy Merger Simulations,” *ApJ*, 710, 279

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