

Marc A. Rafelski

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RESEARCH INTERESTS

Galaxy formation and evolution, absorption line systems, chemical enrichment and physics of the Intergalactic and Circumgalactic medium, galaxy gas accretion, star formation

EDUCATION

- Ph.D. in Physics**, The University of California, San Diego June 2011
Advisor: Prof. Arthur Wolfe
- Masters of Science in Astronomy**, The University of California, Los Angeles June 2006
Advisor: Prof. Andrea Ghez
- Bachelor of Science in Physics and Astronomy**, The University of Arizona May 2004
Magna Cum Laude and Honors, Advisor: Prof. Dennis Zaritsky

WORK EXPERIENCE

- Support Scientist**, Space Telescope Science Institute, Baltimore, MD August 2016-present
Supervisor: Christina Oliveira
- Postdoctoral Fellow**, NASA Goddard Space Flight Center, Greenbelt, MD 2014-2016
NASA Postdoctoral Program Fellow, Advisor: Jonathan P. Gardner
- Postdoctoral researcher**, California Institute of Technology, Pasadena, CA 2011-2014
Infrared Processing and Analysis Center, Advisor: Harry Teplitz
- Graduate student researcher**, University of California, San Diego 2006-2011
Advisor: Prof. Arthur Wolfe
- Graduate student researcher**, University of California, Los Angeles 2004-2006
Advisor: Prof. Andrea Ghez
- Undergraduate student researcher**, University of Arizona 2002-2004
Advisor: Prof. Dennis Zaritsky
- Summer student researcher**, Rutgers University 2004
Advisor: Prof. Jack. Hughes
- Science Undergraduate Laboratory Internship (SULI)** 2003
Lawrence Berkeley National Laboratory, Advisor: Dr. Aldering
- Undergraduate Research Fellowship (ERULF):** 2001
Brookhaven National Laboratory, Advisor: Prof. Wit Busza

COMPUTER EXPERIENCE

Programming Languages: IDL, Python
Data Reduction & Analysis: XIDL, SExtractor, BPZ, EAZY, DrizzlePac

GRANTS AND FUNDING

Total external research funding: \$436,308 as PI, another \$283,121 successful but on request (and another >\$250,000 in fellowships not listed). In addition, brought in over \$3 million as a Co-I on other grants. Titles listed in next section.

Grant	Year	Involvement	Value
HST GO, Cycle 25 (15100)	2018-2021	Admin PI	\$134,287*
HST GO, Cycle 25 (15283)	2018-2021	Admin PI	\$43,675*
HST GO, Cycle 25 (15163)	2018-2021	funding PI, science Co-I	\$61,895*
HST GO, Cycle 25 (15186)	2018-2021	funding PI, science Co-I	\$43,264*
			* on request
HST AR, Cycle 24 (14580)	2017-2020	PI	\$181,011
NASA Keck 2016B & 2017A	2016-2019	PI	\$12,400
NASA Keck 2016B	2016-2018	PI	\$15,000
HST GO, Cycle 23 (14209)	2016-2019	funding PI, science Co-I	\$15,072
HST GO, Cycle 23 (14178)	2016-2019	funding PI, science Co-I	\$89,303
HST GO, Cycle 23 (14127)	2016-2019	funding PI, science Co-I	\$87,566
HST GO, Cycle 21 (13309)	2014-2017	funding PI, science Co-I	\$12,429
HST GO, Cycle 21 (13389)	2014-2017	funding PI, science Co-I	\$35,927
Total			\$436,308 + \$283,121 on request

SUCCESSFUL TELESCOPE PROPOSALS AND GRANTS

Hubble Space Telescope

Admin PI GO (15100) Mapping the escaping ionizing flux of Lyman continuum galaxies
(\$134,287 on request; 2017 Cycle 25)

Admin PI GO (15283) Witnessing the assembly of galaxies in an extended gas-rich structure
at $z \sim 3.25$ **(\$43,675 on request; 2017 Cycle 25)**

Co-I GO (15163) COS Ultraviolet Baryon Survey (CUBS) **(\$61,895 on request; 2017 Cycle 25)**

Co-I GO (15186) Enabling HST UV Exploration of the Low Surface Brightness Universe: A
Pilot Study with the WFC3 X Filter Set **(\$43,264 on request; 2017 Cycle 25)**

PI AR (14580) The Role of Galaxy Morphology in the Mass-Metallicity-SFR Relation
(\$181,011; 2016 Cycle 24)

Co-I GO (14127) First Measurement of the Small Scale Structure of Circumgalactic Gas via
Grism Spectra of Close Quasar Pairs **(\$87,566; 2015 Cycle 23)**

Co-I GO (14209) The Final UV Frontier: Legacy Near-UV Imaging of the Frontier Fields
(\$15,072; 2015 Cycle 23)

Co-I GO/PAR (14178) WFC3 Infrared Spectroscopic Parallel Survey: The WISP Deep Fields
(\$89,303; 2015 Cycle 23)

Co-I SNAP (13309) UV Snapshot of Low-redshift Massive Star-forming Galaxies: Searching
for the Analogs of High-redshift Clumpy Galaxies **(\$12,429; 2013 Cycle 21)**

Co-I GO (13389) The Ultraviolet Frontier: Completing the Census of Star Formation at Its
Peak Epoch **(\$35,927; 2015 Cycle 21)**

- Co-I GO/PAR (12568,12902,13352,13517) WFC3 Infrared Spectroscopic Parallel Survey**
WISP: A Survey of Star Formation Across Cosmic Time (2011-2014 Cycle 19-22)
- Co-I AR (12821) Probing the Lyman continuum in sub-M* galaxies at z~1 (2012; Cycle 22)**
- Co-I GO (12534) Panchromatic Hubble Ultra Deep Field: Ultraviolet Coverage (2011; C21)**
- Co-I AR (12645) H I Selected Survey for Damped Lyman alpha systems with z < 1 (2011; C19)**
- Co-I AR (10656) An HST/NICMOS Study of our Galaxy's Central Supermassive Black Hole (2006; Cycle 14)**

Spitzer Space Telescope

- Co-I GO (12093) Measuring Low Mass Galaxies In The WFC3 Infrared Spectroscopic Parallels Survey (2015)**
- Co-I GO (10041) Mass Assembly In The WFC3 Infrared Spectroscopic Parallels Survey (2013)**
- Co-I GO (90230) Low Mass Galaxy Evolution In The WFC3 Infrared Spectroscopic Parallels Survey (2012)**

Ground Based Telescope Proposals

- PI W.M. Keck Telescopes (2 NASA-Keck proposals, 1 night 2016B 2 nights 2017A, \$27,400)**
- PI ESO Very Large Telescope (VLT; 2 proposals, 32 hours, P98A (2016) & P100A (2017))**
- PI Palomar 200 inch (4 proposals, 17 nights 2011-2013)**
- Co-I W.M. Keck Telescopes (23 UC-Keck proposals with Arthur Wolfe, 40 nights 2006-2012)**
- Co-I Palomar 200 inch (1 proposals, 4 nights, 2013)**
- Co-I Magellan Baade Telescope (1 proposal, 4 nights, 2012)**
- Co-I ESO Very Large Telescope (VLT; 4 proposals, 56.5 hours, 2014-2017)**
- Co-I ALMA (3 proposals: 2016.1.00569.S, 2015.1.01564.S, 2013.1.00526.S)**

OBSERVING EXPERIENCE

W.M. Keck Observatory: 10m telescopes	Total: 43 nights
• HIRES: High Resolution Echelle Spectrometer	16 nights
• ESI: Echelle Spectrograph and Imager	16 nights
• LRIS: Low Resolution Imaging Spectrometer	5 nights
• NIRC: Near Infrared Camera	3 nights
• NIRC2: Near Infrared Camera 2	2 nights
• OSIRIS: OH Suppressing Infrared Integral-field Spectrograph	1 night
Palomar Observatory: 200-inch Telescope	Total: 17 nights
• LFC: Large Format Camera	12 nights
• DBSP: The Double Spectrograph	5 nights
Magellan Observatory: Baade & Clay 6.5m telescopes	Total: 6 nights
• FIRE: Folded-port InfraRed Echellette	2 nights
• IMACS: Inamori-Magellan Areal Camera & Spectrograph	1 night
• FourSTAR: Infrared Camera	1 night
• LDSS3: Low Dispersion Survey Spectrograph 3	2 nights
WIYN Observatory: 3.5m telescope (Mini-Mosaic Imager)	Total: 3 nights

AWARDS AND HONORS

- Lindau Nobel Laureate meeting participant 2016
- Distinguished Fellow 2016
 - Kosciuszko Foundation Collegium of Eminent Scientists
- NASA Postdoctoral Program Fellowship 2014-2016
- Certificate in Teaching Innovative Laboratory Experiences 2010
 - Institute for Scientist & Engineer Educators
- Summer Graduate Teaching Fellowship, University of California, San Diego 2010
- UCLA Department of Physics & Astronomy Fellowship 2004-2005
- Excellence in Undergraduate Research Award in Physics 2004
 - University of Arizona, College of Science
- Baird Scholarship, Baird Foundation, University of Arizona 2000-2004
- Weaver Award for Undergraduate Research, University of Arizona, Physics 2003
- Galileo Circle Scholarship, University of Arizona, College of Science 2003-2004
- Vesto M. Slipher Scholarship, University of Arizona, Physics 2003
- Phi Beta Kappa initiated 2002
- Glenn C. Purviance Scholarship, University of Arizona, Physics 2002
- George Gregson-Science Scholarship, University of Arizona, Physics 2001
- Vomaska Scholarship, University of Arizona, Physics 2000
- Academy of Achievement attendee 2000

TEACHING AND MENTORING EXPERIENCE

Mentor for Research Instrument Analysts (RIAs):

- Ben Sunnquist, Space Telescope Science Institute 2017-present
- James White, Space Telescope Science Institute 2016-present

Mentor for Undergraduate Student in Astronomy Research:

- Anthony Pahl (Summer at NASA Goddard, year remote at UMN) 2016-2017

UCSD Instructor of Physics: University of California, San Diego

- Instructor for Physics 1A: Introductory Mechanics. 2010

Guest Lecturer: Maui Community College

- Astronomy instructor and team leader for the Po'okela short course. Taught inquiry based activities for 1 week. 2008

Teaching Assistant: University of California, San Diego

- Introductory astronomy lecture (Physics 5 and Physics 7) 2006-2007
- Physics laboratory on waves and circuits (Physics 2CL) 2006

Guest Lecturer: University of California, Santa Cruz

- Astronomy instructor for the CfAO Mainland Short Course. Taught inquiry based activities for 1 week. 2007

Guest Lecturer: Hawaii Island observatories

- Astronomy instructor for the CfAO Akamai Observatory Short Course for Hawaii Island. Taught inquiry based activities for 1 week. 2006

Teaching Assistant: University of California, Los Angeles

- Astronomy lab for non-majors 2004

Teaching Assistant: University of Arizona	2001-2004
• Mechanics lab for non-majors	2001-2003
• Electricity, magnetism, and optics for non-majors	2004

PROFESSIONAL ACTIVITIES

Referee for Scientific Journals	2011-2017
• Astrophysical Journal, Astronomy and Astrophysics, Monthly Notices of the Royal Astronomical Society	

Review Panels and Telescope Allocation Committees	2014-2016
• Astrophysics Data Analysis Program (ADAP) Panel	
• Hubble Space Telescope Panel	
• Spitzer Space Telescope Panel	
• CFHT Taiwan TAC	

Committee work	
• Wrote summary on high redshift galaxy surveys with a UV-optical Space telescope (LUVOIR) for the Cosmic Origins Program Analysis Group (COPAG) accepted by PASP	August 2015

Press Releases	
• ALMA Observes Galaxies Embedded in Super-Halos http://www.almaobservatory.org/en/press-room/press-releases/ 1148-alma-observes-galaxies-embedded-in-super-halos	March 2017
• Hubble Reveals Stellar Fireworks in 'Skyrocket' Galaxy http://hubblesite.org/newscenter/archive/releases/2016/23/	June 2016
• Hubble Team Unveils Most Colorful View of Universe Captured by Space Telescope http://hubblesite.org/newscenter/archive/releases/2014/27	June 2014

Local Leadership	
• Founded and ran a weekly lunch for Support Scientists at STScI	2017
• Ran a weekly discussion group on galaxy related science at Goddard	2014-2016
• Founded and ran a weekly department social hour at UCSD	2006-2011

Professional Memberships	
• American Astronomical Society (AAS)	2009-present
• International Astronomical Union (IAU)	2015-present

PROFESSIONAL DEVELOPMENT AS EDUCATOR

Active teaching methods in Astronomy Survey Courses	2009-2011
• NASA Center for Astronomy Education (CAE) workshops	
• AAS meeting #213, Long Beach, California	2009
• AAS meeting #217, Seattle, Washington	2011

Professional Development Program (PDP):	2006-2008
• NSF Center for Adaptive Optics, Maui, Hawaii	
• Design team leader for stellar population inquiry activity	2008
• Design team leader for galaxy evolution inquiry activity	2007
• Team member for re-design of optics inquiry activity	2006

OUTREACH

Explore@NASAGoddard open house volunteer: Goddard Space Flight Center	2015
Reach For Tomorrow volunteer: University of California, San Diego	2008-2011
• Outreach volunteer for disadvantaged K12 students (1 day/year)	
Tech Trek volunteer: University of California, San Diego	2008-2010
• Outreach volunteer for female K12 students (1 day/year)	
Po'okela short course: Maui Community College, HI	2008
• Outreach team leader for native Hawaiian students (1 week + prep)	
CfAO Mainland short course: University of California Santa Cruz	2007
• Outreach volunteer for disadvantaged students (1 week + prep)	
CfAO Akamai Observatory short course: Waimea, Hawaii	2006
• Outreach volunteer for native Hawaiian students (1 week + prep)	
Planetarium show volunteer: University of California, Los Angeles	2004-2006
Science Ambassador: University of Arizona	2003-2004

SELECTED REFEREED PUBLICATIONS (1st and 2nd author)

56 refereed journal papers published or accepted to date, garnering 2199+ citations (439+ of which are for 8 first author papers), leading to an H-index of 27.

Guo, Y., **Rafelski, Marc**, Faber, S. M., Koo, D.C., Krumholz, M.R., Trump, J.R., Willner, S. P., Amorín, R., Barro, G., Bell, E.F., Gardner, J.P., Gawiser, E., Hathi, N.P., Koekemoer, A.M., Pacifici, C., Pérez-González, P.G., Ravindranath, S., Reddy, N., Teplitz, H.I., Yesuf, H., *The Bursty Star Formation Histories of Low-mass Galaxies at $0.4 < z < 1$ Revealed by Star Formation Rates Measured from H_{β} and FUV*, 2016 *Astrophysical Journal* 833, 1

Marc Rafelski, Gardner, J.P., Fumagalli, M., Neeleman, M., Teplitz, H.I., Grogin, N., Koekemoer, A., Scarlata, C., *The Star Formation Rate Efficiency of Neutral Atomic-dominated Hydrogen Gas in the Outskirts of Star Forming Galaxies from $z \sim 1-3$* , 2016 *Astrophysical Journal* 825, 87

Marc Rafelski, Teplitz, H.I., Gardner, J.P., Coe, D., Bond, N.A., Koekemoer, A., Grogin, N., Kurczynski, P., McGrath, E.J., Bourque, M., Atek, H., Brown, T.M., Coe, D., Colbert, J.W., Codoreanu, A., Ferguson, H.C., Finkelstein, S.L., Gawiser, E., Giavalisco, M., Gronwall, C., Hanish, D.J., Lee, K., Mehta, V., de Mello, D.F., Ravindranath, S., Ryan, R.E., Scarlata, C., Siana, B.D., Soto, E., Voyer, E.N., *UVUDF: Ultraviolet Through Near-infrared Catalog and*

Photometric Redshifts of Galaxies in the Hubble Ultra Deep Field, 2015, *Astronomical Journal*, 150, 31

Marc Rafelski, Marcel Neeleman, Michele Fumagalli, Arthur Wolfe, Jason X. Prochaska, *The Rapid Decline in Metallicity of Damped Ly-alpha Systems at $z \sim 5$* , 2014, *Astrophysical Journal Letters*, 782, L29

Teplitz, H.I., **Rafelski, Marc**, Kurczynski, P., Bond, N.A., Grogin, N., Koekemoer, A., Atek, H., Brown, T.M., Coe, D., Colbert, J.W., Ferguson, H.C., Finkelstein, S.L., Gardner, J.P., Gawiser, E., Giavalisco, M., Gronwall, C., Hanish, D.J., Lee, K., de Mello, D.F., Ravindranath, S., Ryan, R.E., Siana, B.D., Scarlata, C., Soto, E., Voyer, E.N., Wolfe, A.M., *UVUDF: Ultraviolet Imaging of the Hubble Ultradeep Field with Wide-field Camera 3*, 2013, *Astronomical Journal*, 146, 159

Marc Rafelski, Arthur M. Wolfe, Jason X. Prochaska, Alexander Mendez, Marcel Neeleman, *Metallicity Evolution of Damped Lyman Alpha Systems out to $z \sim 5$* , 2012, *Astrophysical Journal*, 755, 89

Marc Rafelski, Arthur M. Wolfe, Hsiao-Wen Chen, *Star Formation from DLA Gas in the Outskirts of Lyman Break Galaxies at $z \sim 3$* , 2011, *Astrophysical Journal*, 736, 48

Marc Rafelski, Arthur M. Wolfe, Jeff Cooke, Hsiao-Wen Chen, Taft E. Armandroff, Gregory D. Wirth, *Deep Keck u-band Imaging of the Hubble Ultra Deep Field: A Catalog of $z \sim 3$ Lyman Break Galaxies*, 2009, *Astrophysical Journal*, 703, 2050

Marc Rafelski, Ghez, A. M., Hornstein, S. D., Lu, J. R., Morris, M., *Photometric Stellar Variability in the Galactic Center*, 2007, *Astrophysical Journal*, 659, 1241

Hughes, John P., **Rafelski, Marc**, Warren, Jessica S., Rakowski, Cara, Slane, Patrick, Burrows, David, Nousek, John, *The Chandra View of the Supernova Remnant 0506-68.0 in the Large Magellanic Cloud*, 2006, *Astrophysical Journal*, 645, L117

Marc Rafelski & Dennis Zaritsky, *The Star Clusters of the Small Magellanic Cloud: Age Distribution*, 2005, *Astronomical Journal*, 129, 2701

OTHER REFEREED PUBLICATIONS

Fumagalli, M., Mackenzie, R. Trayford, J., Theuns, T. Catalipo, S. Christensen, L., Fynbo, J.P., Moller, P., O'Meara, Prochaska, J.X., **Rafelski, M.**, Shanks, T., *Witnessing galaxy assembly in an extended $z \approx 3$ structure*, 2017 *Monthly Notices of the Royal Astronomical Society*, 471, 3

Scowen, P.A., Tripp, T., Beasley, M. Ardila, D., Andersson, B-G, Apellániz, J., Barstow, M., Bianchi, L., Calzetti, D., Clampin, M., Evans, C.J., France, K., García, M., Gomez de Castro, A., Harris, W., Hartigan, P., Howk, C., Hutchings, J., Larruquert, J., Lillie, C.F., Matthews, G., McCandliss, S., Polidan, R., Perez, **Rafelski, M.**, Roederer, I.U., Sana, H., Sanders, W.T., Schiminovich, D., Thronson, H., Tumlinson, J., Vallergera, J. Wofford, A., *Finding the UV-Visible Path Forward: Proceedings of the Community Workshop to Plan the Future of UV/Visible Space Astrophysics*, Publications of the Astronomical Society of the Pacific, 2017, 129, 977

- Neeleman, M.; Kanekar, N.; Prochaska, X.J.; **Rafelski, Marc**; Carilli, C.L.; Wolfe, A.M., *[C II] 158 mm emission from the host galaxies of damped Lyman-alpha systems*, 2017, *Science*, 355 (6331), 1285-1288
- Mehta, V.; Scarlata, C.; **Rafelski, Marc**; Gburek, T.; Teplitz, H.I.; Alavi, A.; Boylan-Kolchin, M.; Finkelstein, S.; Gardner, J.P.; Grogin, N.; Koekemoer, A.; Kurczynski, P.; Siana, B.; Codoreanu, A.; de Mello, D.F.; Lee, K.S.; Soto, E., *UVUDF: UV Luminosity Functions at the cosmic high-noon*, *Astrophysical Journal* 2017, 838, 29
- Soto, E.; de Mello, D.F.; **Rafelski, Marc**; Gardner, J.P.; Teplitz, H.I.; Koekemoer, A.M.; Ravindranath, S.; Grogin, N.A.; Scarlata, C.; Kurczynski, P.; Gawiser, E., *Physical Properties of Sub-galactic Clumps at $0.5 < z < 1.5$ in the UVUDF*, 2017, *Astrophysical Journal*, 837, 6
- Bagley, M.B., Scarlata, C., Henry, A., **Marc Rafelski**, Malkan, M., Teplitz, H.Y., Dai, S., Baronchelli, I., Colbert, J., Rutkowski, M., Mehta, V., Dressler, A., McCarthy, P., Bunker, A., Atek, H. Garel, T., Martin, C.L., Hathi, N., Siana, B., *A High Space Density of Luminous Lyman Alpha Emitters at $z \sim 6.5$* , 2017, *Astrophysical Journal*, 837, 11
- Pacifici, C.; Kassin, S.A.; Weiner, B.J.; Holden, B.; Gardner, J.P.; Faber, S.M.; Ferguson, H.C.; Koo, D.C.; Primack, J.R.; Bell, E.F.; Dekel, A.; Gawiser, E.; Giavalisco, M.; **Rafelski, Marc**; Simons, C.; Barro, G.; Croton, D.J.; Dave, R.; Fontana, A.; Grogin, N.A.; Koekemoer, A.M.; Lee, S.K.; Salmon, B.; Somerville, R.; Behroozi, P., *The evolution of star formation histories of quiescent galaxies*, 2016 *Astrophysical Journal*, 832, 79
- Vicki L. Toy; Antonino Cucchiara; Sylvain Veilleux; Michele Fumagalli; **Marc Rafelski**; Alireza Rahmati; S. Bradley Cenko; John I. Capone; Dheeraj R. Pasham; *Exploring Damped Lyman-alpha System Host Galaxies Using Gamma-Ray Bursts*, 2016 *Astrophysical Journal* 832, 2
- Alavi, Anahita; Siana, Brian; Richard, Johan; **Rafelski, Marc**; Jauzac, Mathilde; Limousin, Marceau; Freeman, William R.; Scarlata, Claudia; Robertson, Brant; Stark, Daniel P.; Teplitz, Harry I., *The Evolution Of The Faint End Of The UV Luminosity Function During The Peak Epoch Of Star Formation ($1 < z < 3$)*, 2016 *Astrophysical Journal* 832, 56
- Kaveh Vasei, Brian Siana, Alice E. Shapley, Anna M. Quider, Anahita Alavi, **Marc Rafelski**, Charles C. Steidel, Max Pettini, Geraint F. Lewis, *The Lyman Continuum Escape Fraction of The Cosmic Horseshoe: A Test of Indirect Estimates*, 2016 *Astrophysical Journal* 831, 38
- Elmegreen, Debra Meloy; Elmegreen, Bruce G.; Sanchez Almeida, Jorge; Munoz-Tunon, Casiana; Mendez-Abreu, Jairo; Gallagher, John S.; **Rafelski, Marc**; Filho, Mercedes; Ceverino, Daniel, *Hubble Space Telescope Observations of Accretion-Induced Star Formation in the Tadpole Galaxy Kiso 5639*, 2016 *Astrophysical Journal* 825, 2
- Japelj, J.; Vergani, S. D.; Salvaterra, R.; D'Avanzo, P.; Mannucci, F.; Fernandez-Soto, A.; Boissier, S.; Hunt, L. K.; Atek, H.; Rodríguez-Muñoz, L.; Scodreggio, M.; Cristiani, S.; Le Floc'h, E.; Flores, H.; Gallego, J.; Ghirlanda, G.; Gomboc, A.; Hammer, F.; Perley, D. A.; Pescalli, A.; Petitjean, P.; Puech, M.; **Rafelski, M.**; Tagliaferri, G., *Are LGRBs biased tracers of star formation? Clues from the host galaxies of the Swift/BAT6 complete sample of bright LGRBs. II: star formation rates and metallicities at $z < 1$* , 2016 *Astronomy & Astrophysics* 590, 129

- Zanella, A.; Scarlata, C.; Corsini, E. M.; Bedregal, A. G.; Dalla Bontà, E.; Atek, H.; Bunker, A. J.; Colbert, J.; Dai, Y. S.; Henry, A.; Malkan, M.; Martin, C.; **Rafelski, M.**; Rutkowski, M. J.; Siana, B.; Teplitz, H., *The role of quenching time in the evolution of the mass-size relation of passive galaxies from the WISP survey*, 2016 *Astrophysical Journal Letters*, 824, 2
- Guo, Yicheng; Koo, David C.; Lu, Yu; Forbes, John C.; **Rafelski, Marc**; Trump, Jonathan R.; Amorín, Ricardo; Barro, Guillermo; Davé, Romeel; Faber, S. M.; Hathi, Nimish P.; Yesuf, Hassen; Cooper, Michael C.; Dekel, Avishai; Guhathakurta, Puragra; Kirby, Evan N.; Koekemoer, Anton M.; Pérez-González, Pablo G.; Lin, Lihwai; Newman, Jeffery A.; Primack, Joel R.; Rosario, David J.; Willmer, Christopher N. A.; Yan, Renbin, *Stellar Mass--Gas-phase Metallicity Relation at $0.5 < z < 0.7$: A Power Law with Increasing Scatter toward the Low-mass Regime*, 2016 *Astrophysical Journal*, 822, 2
- Kurczynski, Peter, Gawiser, Eric, Acquaviva, Viviana, Bell, Eric F., Dekel, Avishai, de Mello, Duilia F., Ferguson, Henry C., Gardner, Jonathan P., Grogin, Norman A., Guo, Yicheng, Hopkins, Philip F., Koekemoer, Anton M., Koo, David C., Lee, Seong-Kook, Mobasher, Bahram, Primack, Joel R., **Rafelski, Marc**, Soto, Emmaris, Teplitz, Harry I., *Evolution of Intrinsic Scatter in the SFR-Stellar Mass Correlation at $0.5 < z < 3$* , 2016 *Astrophysical Journal Letters* 820, 1
- Neeleman, Marcel, Prochaska, J. Xavier, Ribaud, Joseph, Lehner, Nicolas, Howk, J. Christopher, **Rafelski, Marc**, Kanekar, Nissim, *The HI Content of the Universe over the Past 10 Gyrs*, 2016 *Astrophysical Journal*, 818, 113
- Schreiber, Corentin, Elbaz, David, Pannella, Maurilio, Ciesla, Laure, Wang, Tao, Koekemoer, Anton M., **Rafelski, Marc**, Daddi, Emanuele, *Observational evidence of a slow downfall of star formation efficiency in massive galaxies during the last 10 Gyr*, 2016 *Astronomy & Astrophysics* 589, 35
- Rutkowski, Michael J., Scarlata, Claudia, Haardt, Francesco, Siana, Brian, Henry, Alaina, **Rafelski, Marc**, Hayes, Matthew, Salvato, Mara, Pahl, Anthony J., Mehta, Vihang, Beck, Melanie, Malkan, Matthew, Teplitz, Harry I., *The Lyman Continuum Escape Fraction of Low-Mass Star-Forming Galaxies at $z \sim 1$* . 2016 *Astrophysical Journal*, 819, 81
- Mehta, Vihang, Scarlata, Claudia, Colbert, James W., Dai, Sophia, Dressler, Alan, Henry, Alaina, Malkan, Matt, **Rafelski, Marc**, Siana, Brian, Teplitz, Harry, Bagley, Micaela, Beck, Melanie, Ross, Nathaniel R., Rutkowski, Michael, Wang, Yun, *Predicting the redshift 2 $H\alpha$ luminosity function using [OIII] emission line galaxies* 2015 *Astrophysical Journal*, 811, 141
- Finkelstein, Steven L., Ryan, Russell E., Jr., Papovich, Casey, Dickinson, Mark, Song, Mimi, Somerville, Rachel, Ferguson, Henry C., Salmon, Brett, Giavalisco, Mauro, Koekemoer, Anton M., Ashby, Matthew L. N., Behroozi, Peter, Castellano, Marco, Dunlop, James S., Faber, Sandy M., Fazio, Giovanni G., Fontana, Adriano, Grogin, Norman A., Hathi, Nimish, Jaacks, Jason, Kocevski, Dale D., Livermore, Rachael, McLure, Ross J., Merlin, Emiliano, Mobasher, Bahram, Newman, Jeffrey A., **Rafelski, Marc**, Tilvi, Vithal, Willner, S. P., *The Evolution of the Galaxy Rest-Frame Ultraviolet Luminosity Function Over the First Two Billion Years*, 2015 *Astrophysical Journal*, 810, 71

Cucchiara, A., Fumagalli, M., **Rafelski, M.**, Kocevski, D., Prochaska, J. X., Cooke, R. J., Becker, G. D., *Unveiling the Secrets of Metallicity and Massive Star Formation Using DLAs along Gamma-ray Bursts*, 2015, *Astrophysical Journal*, 804, 51

Yicheng Guo, Henry C. Ferguson, Eric F. Bell, David C. Koo, Christopher J. Conselice, Mauro Giavalisco, Susan Kassin, Yu Lu, Ray Lucas, Nir Mandelker, Daniel M. McIntosh, Joel R. Primack, Swara Ravindranath, Guillermo Barro, Daniel Ceverino, Avishai Dekel, Sandra M. Faber, Jerome J. Fang, Anton M. Koekemoer, Kai Noeske, **Marc Rafelski**, Amber Straughn, *Clumpy Galaxies in CANDELS: I. The Definition of UV Clumps and the Fraction of Clumpy Galaxies at $0.5 < z < 3$* , 2015 *Astrophysical Journal*, 800, 39

Fumagalli, Michele, O'Meara, John M., Prochaska, J. Xavier, **Rafelski, Marc**, Kanekar, Nissim, *Directly imaging damped Ly-alpha galaxies at $z > 2$. III: The star formation rates of neutral gas reservoirs at $z \sim 2.7$* , 2015 *Monthly Notices of the Royal Astronomical Society*, 446, 3178

Rosario, D. J., McIntosh, D. H., van der Wel, A., Kartaltepe, J., Lang, P., Santini, P., Wuyts, S., Lutz, D., **Rafelski, M.**, Villforth, C., Alexander, D. M., Bauer, F. E., Bell, E. F., Berta, S., Brandt, W. N., Conselice, C. J., Dekel, A., Faber, S. M., Ferguson, H. C., Genzel, R., Grogin, N. A., Kocevski, D. D., Koekemoer, A. M., Koo, D. C., Lotz, J. M., Magnelli, B., Maiolino, R., Mozena, M., Mullaney, J. R., Papovich, C. J., Popesso, P., Tacconi, L. J., Trump, J. R., Avadhuta, S., Bassett, R., Bell, A., Bernyk, M., Bournaud, F., Cassata, P., Cheung, E., Croton, D., Donley, J., DeGroot, L., Guedes, J., Hathi, N., Herrington, J., Hilton, M., Lai, K., Lani, C., Martig, M., McGrath, E., Mutch, S., Mortlock, A., McPartland, C., O'Leary, E., Peth, M., Pillepich, A., Poole, G., Snyder, D., Straughn, A., Telford, O., Tonini, C., Wandro, P., *The host galaxies of X-ray selected Active Galactic Nuclei to $z = 2.5$: Structure, star-formation and their relationships from CANDELS and Herschel/PACS*, 2014 *Astronomy & Astrophysics*, 573, A85

Kurczynski, P., Gawiser, E., **Rafelski, Marc**, Teplitz, H.I., Brown, T.M., Coe, D., de Mello, D.F., Grogin, N., Finkelstein, S.L., Koekemoer, A. M., Lee, K., Scarlata, C., Siana, B. D., *The UV Continuum of Star-Forming Galaxies in the Hubble Ultra Deep Field*, 2014, *Astrophysical Journal Letters*, 793, 5

Atek, Hakim, Kneib, Jean-Paul, Pacifici, Camilla, Malkan, Matthew, Charlot, Stephane, Lee, Janice, Bedregal, Alejandro, Bunker, Andrew J., Colbert, James W., Dressler, Alan, Hathi, Nimish, Lehnert, Matthew, Martin, Crystal L., McCarthy, Patrick, **Rafelski, Marc**, Ross, Nathaniel, Siana, Brian, Teplitz, Harry I. *Hubble Space Telescope Grism Spectroscopy of Extreme Starbursts Across Cosmic Time: The Role of Dwarf Galaxies in the Star Formation History of the Universe*, 2014 *Astrophysical Journal*, 789, 96

Nick A. Bond, Jonathan P. Gardner, Duilia F. De Mello, Harry I. Teplitz, **Marc Rafelski**, Anton M. Koekemoer, Dan Coe, Norman Grogin, Eric Gawiser, Swara Ravindrantath, Claudia Scarlata, *The Rest-Frame Ultraviolet Structure of $0.5 < z < 1.5$ Galaxies*, 2014, *Astrophysical Journal*, 791, 18

Masters, D., McCarthy, P., Siana, B., Malkan, Mobasher, B., Atek, H., Henry, A., Martin, C.L., **Rafelski, M.**, Hathi, N.P., Scarlata, C., Ross, N., Bunker, A.J., Blanc, G., Bedregal, A., Dominguez, A., Colbert, J. Teplitz, H., Dressler, A., *Physical Properties of Emission-line*

- Galaxies at $z \sim 2$ from Near-infrared Spectroscopy with Magellan Fire*, 2014, *Astrophysical Journal*, 785, 153
- Yan, H., Stefanon, M., Ma, Z., Willner, S., Somerville, R., Ashby, M., Dave, R., Perez-Gonzalez, P.G., Cava, A., Wiklind, T., Kocevski, D., **Rafelski, M.**, Kartaltepe, J., Cooray, A. *Optical-faint, Far-infrared-bright Herschel Sources in the CANDELS Fields: Ultra-Luminous Infrared Galaxies at $z > 1$ and the Effect of Source Blending*, 2014 *Astrophysical Journal Supplements*, 213, 2
- S. L. Finkelstein , C. Papovich , M. Dickinson , M. Song , V. Tilvi , A. M. Koekemoer , K. D. Finkelstein , B. Mobasher , H. C. Ferguson , M. Giavalisco , N. Reddy , M. L. N. Ashby , A. Dekel , G. G. Fazio , A. Fontana , N. A. Grogin , J.-S. Huang , D. Kocevski, **M. Rafelski**, B. J. Weiner & S. P. Willner, *A Rapidly Star-forming Galaxy 680 Million Years After the Big Bang at $z = 7.51$* , 2013, *Nature*, 502, 524
- Alavi, Anahita, Siana, Brian, Richard, Johan, Stark, Daniel P., Scarlata, Claudia, Teplitz, Harry I., Freeman, William R., Dominguez, Alberto, **Rafelski, Marc**, Robertson, Brant, Kewley, Lisa, *Ultra-faint Ultraviolet Galaxies at $z \sim 2$ Behind the Lensing Cluster Abell 1689: the Luminosity Function, Dust Extinction and Star Formation Rate Density*, 2013, *Astrophysical Journal*, 780, 143
- Colbert, James W., Teplitz, Harry, Atek, Hakim, Bunker, Andrew, **Rafelski, Marc**, Ross, Nathaniel, Scarlata, Claudia, Bedregal, Alejandro, Dominguez, Alberto, Dressler, Alan, Henry, Alaina, Malkan, Matt, Martin, Crystal L., Masters, Dan, McCarthy, Patrick, Siana, Brian, *Predicting Future Space Near-IR Grism Surveys using the WFC3 Infrared Spectroscopic Parallels Survey*, 2013, *Astrophysical Journal*, 779, 34
- A. Henry, C. Scarlata, A. Dominguez, M. Malkan, C.L. Martin, B. Siana, H. Atek, A.G. Bedregal, J.W. Colbert, **M. Rafelski**, N. Ross, H. Teplitz, A.J. Bunker, A. Dressler, N.Hathi, D. Masters, P. McCarthy, A. Straughn, *Low Masses and High Redshifts: The Evolution of the Mass-Metallicity Relation*, 2013, *Astrophysical Journal Letters*, 776L, 27
- A.G. Bedregal, C. Scarlata, A.L. Henry,, H. Atek, **M. Rafelski**, H.I. Teplitz, A. Dominguez, B. Siana, J.W. Colbert, M. Malkan, N.R. Ross, C.L. Martin, A. Dressler, C. Bridge, N.P. Hathi, D.Masters, P.J. McCarthy, M.J. Rutkowski, *HST/WFC3 Near-Infrared Spectroscopy of Quenched and Mildly Star Forming Galaxies at $z \sim 1.4$ from WISPs: Stellar Population Properties*, 2013, *Astrophysical Journal*, 778,126
- Neeleman, Marcel, Wolfe, Arthur M., Prochaska, J. Xavier, **Rafelski, Marc**, *The Fundamental Plane of Damped Lyman Alpha Systems*, 2013, *Astrophysical Journal*, 769, 54
- Domínguez, A., Siana, B., Henry, A. L., Scarlata, C., Bedregal, A. G., Malkan, M., Atek, H., Ross, N. R., Colbert, J. W., Teplitz, H. I., **Rafelski, M.**, McCarthy, P., Bunker, A., Hathi, N. P., Dressler, A., Martin, C. L., Masters, D., *Dust Extinction from Balmer Decrements of Star-forming Galaxies at $0.75 \leq z \leq 1.5$ with Hubble Space Telescope/Wide-Field-Camera 3 Spectroscopy from the WFC3 Infrared Spectroscopic Parallel Survey*, 2013, *Astrophysical Journal*, 763, 145

- Masters, D., McCarthy, P., Burgasser, A. J., Hathi, N. P., Malkan, M., Ross, N. R., Siana, B., Scarlata, C., Henry, A., Colbert, J., Atek, H., **Rafelski, M.**, Teplitz, H., Bunker, A., Dressler, A., *Discovery of Three Distant, Cold Brown Dwarfs in the WFC3 Infrared Spectroscopic Parallels Survey*, 2012, *Astrophysical Journal Letters*, 752, 14
- Chornock, R., Filippenko, A. V., Li, W., Marion, G. H., Foley, R. J., Modjaz, M., **Rafelski, M.**, Becker, G. D., de Vries, W. H., Garnavich, P., Jorgenson, R. A., Lynch, D. K., Malec, A. L., Moran, E. C., Murphy, M. T., Rudy, R. J., Russell, R. W., Silverman, J. M., Steele, T. N., Stockton, A., Wolfe, A. M., Woodward, C. E., *The Transitional Stripped-Envelope SN 2008ax: Spectral Evolution and Evidence for Large Asphericity*, 2011, *Astrophysical Journal*, 739, 41
- Chornock, R., Bloom, J.S., Cenko, S.B., Filippenko, A.V., Silverman, J. M., Hicks, M. D., Lawrence, K. J., Mendez, A. J., **Rafelski, M.**, Wolfe, A. M., 2010, *The Quasar SDSS J1536+0441: An Unusual Double-peaked Emitter*, 2010, *Astrophysical Journal Letters*, 709L, 39
- Wolfe, Arthur M., Prochaska, Jason X., Jorgenson, Regina A., **Rafelski, Marc**, *Bimodality in Damped Lyman Alpha Systems*, 2008, *Astrophysical Journal* 681, 881
- Hornstein, S. D., Matthews, K., Ghez, A. M., Lu, J. R., Morris, M., Becklin, E. E., **Rafelski, M.**, Baganoff, F. K., *A Constant Spectral Index for Sagittarius A* During Infrared/X-Ray Intensity Variations*, 2007, *Astrophysical Journal*, 667, 900
- B.B.Back et al., *Energy Dependence of Particle Multiplicities in Central Au+Au Collisions*, 2002, *Physical Review Letters*, 88, 022302
- B.B.Back et al., *Centrality dependence of the charged particle multiplicity near mid-rapidity in Au+Au collisions at $\sqrt{s_{NN}} = 130$ and 200 GeV*, 2002, *Physical Review C*, C65, 061901R
- A. Olszewski et al., *Overview of Results from Phobos Experiment at RHIC*, 2002, *Journal of Physics G: Nuclear Particle Physics*, G28, 1801

NON-REFEREED PUBLICATIONS

- Marc Rafelski**, *The SFR Efficiency of HI Gas in the Outskirts of Star Forming Galaxies*, 2017, *Proceedings of the International Astronomical Union, IAU Symposium, Formation and Evolution of Galaxy Outskirts*, 321, 360
- Soto, E.; de Mello, D.F.; **Rafelski, Marc**; Gardner, J.P.; Koekemoer, A.M., *Galaxies Unveiled: Rest-frame UV Clumps at $0.5 < z < 1.5$* , 2017, *Proceedings of the International Astronomical Union, IAU Symposium, Formation and Evolution of Galaxy Outskirts*, 321, 364
- Crighton, N.H.M.; Murphy, M.T.; Prochaska, J.X.; Worseck, G.; **Rafelski, Marc**; Becker, G. D.; Ellison, S.L.; Fumagalli, M.; Lopez, S.; Meiksin, A.; O'Meara, J.M. *The Neutral Hydrogen Cosmological Mass Density at $z = 5$* , 2017, *Proceedings of the International Astronomical Union, IAU Symposium, Formation and Evolution of Galaxy Outskirts*, 321, 309
- Marc Rafelski**, Michael Foley, Genevieve J. Graves, Katherine A. Kretke, Elisabeth Mills, Michael Nassir, and Shannon Patel, *Teaching Astronomy with an Inquiry Activity on Stellar Populations*, 2010, *ASP Conference Series 436, Learning from Inquiry in Practice*, eds. L. Hunter & A. J. Metevier (San Francisco, CA: ASP)

Emily L. Rice, Michael McElwain, Sarah Sonnett, and **Marc Rafelski**, 2010, *The Evolution of Inquiry Activities in the Akamai Observatory Short Course*, ASP Conference Series 436, Learning from Inquiry in Practice, eds. L. Hunter & A. J. Metevier (San Francisco, CA: ASP)

Rafelski, M., Ghez, A. M., Hornstein, S. D., Lu, J. R., Morris, M., 2006, *Photometric Stellar Variability in the Galactic Center*, Journal of Physics Conference Series, 54, 316

Hornstein, S. D., Matthews, K., Ghez, A. M., Lu, J. R., Morris, M., Becklin, E. E., Baganoff, F. K., **Rafelski, M.**, *Infrared/X-ray intensity variations and the color of Sgr A**, 2006, Journal of Physics Conference Series, 54, 399

TALKS AND POSTERS

31 oral presentations and 13 poster presentations at a range of universities and institutes across the United States, Europe, Australia, and Asia

What Matters Around Galaxies: Durham University, UK 06/2017

- **Talk:** *Evolution of the hydrogen mass density, metallicity, and star-formation rate in DLAs associated with galaxies*

Research Seminar: Durham University, UK 06/2017

- **Talk:** *The physical properties of HI-rich galaxies across 10 billion years*

STScI Spring Symposium: Lifecycle of Metals Throughout the Universe: 04/2017

Celebrating 50 years of UV Astronomy: STScI, Baltimore, MD

- **Talk:** *UVUDF: Ultraviolet Coverage of the Hubble Ultradeep Field*
- **Poster:** *The Metal Enrichment and Star Formation of HI gas (DLAs) Over Cosmic Time*

What Shapes Galaxies: STScI, Baltimore, MD 04/2016

- **Poster:** *The Star Formation Rate Efficiency of Atomic-dominated Hydrogen Gas from $z \sim 1$ to $z \sim 3$*

Outskirts of Galaxies: Toledo, Spain 03/2016

- **Talk:** *SFR Efficiency of Atomic-dominated Hydrogen Gas in the Outskirts of Star Forming Galaxies from $z \sim 1$ to $z \sim 3$*

American Astronomical Society Meeting #227: Florida

- **Talk:** *The Star Formation Rate Efficiency of Atomic-dominated Hydrogen Gas from $z \sim 1$ to $z \sim 3$* 01/2016

Census, Evolution, Physics (Galaxies): Yale University, New Haven, CT 11/2015

- **Invited Talk:** *Overview of the WFC3 Infrared Spectroscopic Parallel Survey (WISPs)*

CAS Research Seminar: Johns Hopkins University 11/2015

- **Invited Talk:** *On the Non-evolution of the Star Formation Rate Efficiency of HI Rich Galaxies from $z \sim 1-3$*

- CANDELS Team Meeting:** University of California, Santa Cruz 07/2015
 • **Talk:** *UV Data and Science*
- Thirty Meter Telescope Science Forum:** AAAS, Washington DC 06/2015
 • **Talk:** *Uncovering the Origin of the Rapid Decline in Metallicity of Hydrogen-Rich Galaxies at $z \sim 5$*
- Finding the UV-Visible Path Forward:** Goddard, Greenbelt, MD 06/2015
 • **Invited talk:** *Motivations for a future UV-visible telescope: High-redshift Galaxy and Deep-field Studies*
- IGM@50: Is the Intergalactic Medium Driving Star Formation:** Sarteano, Italy 06/2015
 • **Invited talk:** *Evolution in the Star Formation Rate Efficiency of Damped Lyman-alpha Systems*
- Astrophysics Colloquium:** Durham University, UK 06/2015
 • **Invited Talk:** *Evolution of the Star Formation Properties and Chemical Composition of Hydrogen Rich Galaxies in the Early Universe*
- Hubble 2020:** Space Telescope Science Institute 04/2015
 • **Poster:** *Ultraviolet Through Near-infrared HST Imaging and Photometric Redshifts of Galaxies in the Hubble Ultra Deep Field*
- Physics Colloquium:** The Catholic University of America, Washington D.C. 02/2015
 • **Invited Talk:** *Chemical Composition and Star Formation Properties of Hydrogen Rich Galaxies in the Early Universe*
- Galaxies in Absorption:** Paris, France 09/2014
 • **Talk:** *The Metal Enrichment and Star Formation of DLAs Over Cosmic Time*
- The Role of Hydrogen in the Evolution of Galaxies:** Kuching, Malaysia 09/2014
 • **Talk:** *The Metallicity Evolution Neutral Atomic Hydrogen gas out to High Redshift*
- Intergalactic Matters:** Heidelberg, Germany 06/2014
 • **Poster:** *The Rapid Decline in Metallicity of Damped Lyman-alpha systems at $z \sim 5$*
- Astrophysics Colloquium:** Melbourne University of Technology 05/2014
 • **Invited Talk:** *Metallicity Evolution and Star Formation Properties of Damped Ly-alpha Systems*
- The Near-Field Deep-Field Connection:** University of California, Irvine 02/2014
 • **Poster:** *The Rapid Decline in Metallicity of Damped Lyman-alpha systems at $z \sim 5$*
 • **Discussion Talk:** *CGM of the Milky Way and Beyond*
- CAS Research Seminar:** Johns Hopkins University 12/2013
 • **Invited Talk:** *Star Formation Properties and Metallicity Evolution of HI Rich Galaxies at High Redshift*

- Astronomy Seminar:** University of California, Riverside 11/2013
 • **Invited Talk:** *Star Formation Properties and Metallicity Evolution of HI Rich Galaxies at High Redshift*
- Astrophysics Colloquium:** University of Minnesota 11/2013
 • **Invited Talk:** *Star Formation Properties and Metallicity Evolution of HI Rich Galaxies at High Redshift*
- CANDELS Team Meeting:** University of Kentucky 8/2013
 • **Talk:** Data Challenges for CANDELS UV Data
 • **Talk:** Overview of CANDELS UV Data in GOODS North
- Intergalactic Interactions:** Royal Observatory, Edinburgh, Scotland 6/2013
 • **Talk:** *On the possible break in the metallicity evolution of DLAs at $z \sim 5$*
- CANDELS Team Meeting:** University of California, Santa Cruz 9/2012
 • **Talk:** *Data Reduction Challenges for Binned UV Data*
- Keck Science Meeting:** University of California, San Diego 9/2012
 • **Talk:** *Metallicity Evolution of Damped Lyman-alpha Systems out to $z \sim 5$*
- Galactic Scale Star Formation:** Heidelberg, Germany 8/2012
 • **Talk:** *Measuring the evolution of the star formation rate efficiency from $z \sim 1-4$*
- UV Astronomy: HST and Beyond:** Kaula'i, Hawai'i 6/2012
 • **Poster:** *Ultraviolet Observations of the Hubble Ultra Deep Field*
- American Astronomical Society Meeting #220:** Anchorage, AK 6/2012
 • **Talk:** *Ultraviolet Observations of the Hubble Ultra Deep Field*
- The 2012 Greater IPAC Science Symposium:** 3/2012
 California Institute of Technology
 • **Talk:** *Star Formation from DLA Gas in the Outskirts of Lyman Break Galaxies*
- Keck Science Meeting:** California Institute of Technology 9/2011
 • **Talk:** *Metallicity Evolution of Damped Ly-alpha Systems out to $z \sim 5$*
- A Quarter Century of DLAs: Celebrating the career of Arthur Wolfe** 7/2011
 Ringberg Castle, Germany
 • **Invited Talk:** *Star Formation from DLA Gas in the Outskirts of Lyman Break Galaxies at $z \sim 3$*
- Star Formation in Galaxies - the Herschel Era:** 6/2011
 Ringberg Castle, Germany
 • **Invited Talk:** *Star Formation from DLA Gas in the Outskirts of Lyman Break Galaxies at $z \sim 3$*

- Center for Galaxy Evolution Inaugural Workshop:** Irvine, CA 3/2011
 • **Poster:** *Star Formation from DLA Gas in the Outskirts of Lyman Break Galaxies at $z \sim 3$*
- American Astronomical Society Meeting #217:** Seattle, WA 1/2011
 • **Talk:** *Low Surface Brightness Emission in the Outskirts of LBGs at $z \sim 3$: Possible Star Formation in Atomic-dominated DLA Gas*
- Learning from Inquiry in Practice: The PDP Community Interchange** 1/2010
 Santa Cruz, CA
 • **Poster:** *Stellar Populations Inquiry*
- Keck Science Meeting:** California Institute of Technology 9/2009
 • **Poster:** *Search for Spatially Extended Star Formation Around Lyman Break Galaxies*
- SFR@50: Filling the Cosmos with Stars:** Sarteano, Italy 7/2009
 • **Invited Talk:** *Search for Spatially Extended Star Formation around Lyman Break Galaxies in the Hubble Ultra Deep Field*
- American Astronomical Society Meeting #213, Long Beach, CA** 1/2009
 • **Poster:** *Lyman Break Galaxies in the Hubble Ultra Deep Field through Deep U-Band Imaging*
- Keck Science Meeting:** University of California, Santa Cruz 9/2008
 • **Poster:** *Ultra Deep Keck u-band Imaging of the Hubble Ultra Deep Field*
- Keck Science Meeting:** University of California, Irvine 9/2006
 • **Poster:** *Photometric Stellar Variability in the Galactic Center*
- From the Center of the Milky Way to Nearby Low-Luminosity Galactic Nuclei,** Bad Honnef, Germany 4/2006
 • **Poster:** *Photometric Stellar Variability in the Galactic Center*