

Dr. Gregory L. Walth

UC San Diego
Center for Astrophysics & Space Sciences
9500 Gilman Drive
La Jolla, CA 92093-0424 USA

phone: 661-478-7666
gwalth@ucsd.edu
<http://gwalth.physics.ucsd.edu/>

EDUCATION

Ph.D. Astronomy, University of Arizona, 2015

Thesis: “Characterizing Star Forming Properties of Herschel-detected Gravitationally Lensed Galaxies”

Advisor: Dr. Eiichi Egami

B.S. Physics, Mathematics minor, University of California, Los Angeles, 2003

RESEARCH EXPERIENCE

TMT IRIS Postdoctoral Scholar, CASS, UC San Diego, 2015 - present

Developing and designing the data reduction system for the near-infrared imager/spectrograph IRIS on the Thirty Meter Telescope; *Advisor*: Prof. Shelley Wright

Graduate Research Assistant, University of Arizona, 2008 - 2015

Research Assistant, Carnegie Observatories, 2004 - 2008

Developed and ran spectroscopic reduction pipelines for Magellan instruments IMACS, LDSS3 and MIKE; developed scientific data-products content management systems; *Advisor*: Dr. Daniel Kelson

Research Assistant, Lowell Observatory, 2003-2004

Performed photometry on stars in the star forming region IC-1795; measured nebular boundaries of H I galaxies in the SINGG H α survey; *Advisor*: Dr. Sally Oey

UNDERGRADUATE RESEARCH EXPERIENCE

Research Assistant, University of California, Los Angeles, 2003

Searched for IR excess around Hipparcos stars by comparing *IRAS* 12 and 25 μm fluxes; fit stellar models to BVJHK photometry to determine their temperature and radius; *Advisor*: Dr. Inseok Song

Research Assistant, Mt. Wilson Observatory, 2002 - 2003

Collected optical imaging and performed photometry on the globular cluster M92 in order to study RR Lyre variables as they evolve through through the instability gap; *Advisor*: Barret Duff

Research Assistant, University of California, Los Angeles, 2002 - 2003

Modelled mid-IR and far-IR flux ratios for *Spitzer* based on *IRAS* and *ISO* nearby galaxy observations; *Advisor*: Prof. Matthew Malkan

Laboratory Helper, University of California, Los Angeles, 2002 - 2003

Designed and fabricated temperature control units for the linac and fiber optics for the particle accelerator in the Neptune laboratory; *Advisor*: Prof. Jamie Rosensweig and Dr. Gil Travish

Research Assistant, University of California, Los Angeles, 2001

Searched for companions to A stars by spatially correlating the star to an X-ray source and by the stars color; *Advisor*: Prof. Ben Zuckerman and Dr. Inseok Song

OBSERVING EXPERIENCE

40 observing runs for a total of 111.5 nights

- Optical spectroscopy:

Keck/DEIMOS MOS, Keck/KCWI IFU, LBT/MODS MOS, Magellan/IMACS MOS, Magellan/LDSS3 MOS,

MMT/Red Channel long-slit, MMT/Blue Channel long-slit

- Near-Infrared spectroscopy:

Keck/OSIRIS, LBT/LUCI MOS, Magellan/MMIRS MOS, Magellan/FIRE long-slit

- Near-Infrared imaging:

CTIO/NEWFIRM, Magellan/PANIC, MMT/SWIRC

- Optical imaging:

LBT/LBC

TECHNICAL EXPERIENCE

Instrument Data Reduction and Analysis:

Keck: DEIMOS, KCWI, MOSFIRE and OSIRIS

LBT: LUCI and MODS

Magellan: IMACS, LDSS3 and MIKE

ALMA: Experience reducing submm/radio data with CASA

HST: Experience reducing HST grism data with aXe

Languages and Software:

TMT/IRIS simulator

LENSTOOL gravitational lensing software

Le PHARE photometric redshift and SED fitting software

SExtractor, SCAMP, SWarp

Python, C, FORTRAN, IRAF, IDL, DS9, vim

git

SUCCESSFUL OBSERVING PROPOSALS

“Unveiling Gravitationally-Lensed Dusty, Star Forming Galaxies using Adaptive Optics”, 2018A, 1 night, Keck/OSIRIS, CoPI

“Unveiling Gravitationally-Lensed Dusty, Star Forming Galaxies using Adaptive Optics”, 2017B, 1 night, Keck/OSIRIS, CoPI

“Unveiling Gravitationally-Lensed Dusty, Star Forming Galaxies using Adaptive Optics”, 2016B, 1 night, Keck/OSIRIS, CoPI

“Near-infrared spectroscopy of exceptionally bright Herschel Lensing Survey galaxies at redshifts $z = 1.2 - 5.2$ ”, 2015B, 2 nights, MMT/MMIRS, PI

“Near-infrared spectroscopy of exceptionally bright Herschel Lensing Survey galaxies at redshifts $z = 1.2 - 5.2$ ”, 2014B, 4 nights, LBT/LUCI and Magellan/FIRE, PI

“Near-IR Imaging of the Herschel Lensing Survey Cluster Fields”, 2014B, 55 hours, UKIRT/WFCAM, PI

“J and K band imaging of Herschel Lensing Survey massive cluster fields”, 2014A, 29 hours, UKIRT/WFCAM, PI

“Near-IR Spectroscopy of Gravitationally Lensed Herschel Galaxies in Massive Clusters”, 2014A, 2 nights, LBT/LUCI, PI

“LUCI near-infrared spectroscopy of exceptionally bright Herschel Lensing Survey galaxies at redshifts $z = 1.4 - 5.2$ ”, 2013B, 2 nights, LBT/LUCI, PI

“LUCIFER near-infrared spectroscopy of exceptionally bright Herschel Lensing Survey galaxies at redshifts $z = 1.4 - 5.2$ ”, 2013A, 2 nights, LBT/LUCI, PI

“MMIRS near-infrared spectroscopy of 24 μm selected lensed galaxies at redshifts $z > 1$ ”, 2012A, 2 nights, Magellan/MMIRS, PI

“MMIRS near-infrared spectroscopy of lensed Herschel galaxies at redshifts $z > 0.5$ ”, 2011B, 3 nights, Magellan/MMIRS, PI

“SWIRC Near-Infrared Imaging of SPIRE Snapshot Clusters”, 2011C, 2 nights, MMT/SWIRC, PI

TEACHING, SERVICE AND OUTREACH

Research Advisor, REU undergraduate (STARS/CAMPARE) student on gravitationally lensed clumpy galaxies in CLASH, *presenting at AAS*, Summer 2017

Research Mentor, Undergraduate student on in simulating TMT/IRIS observations of Saturns moon Enceladus and TMT/IRIS simulations of ghosting from bright stars, *presenting at SPIE*, 2017

Professional Development Program, UC Santa Cruz, 2017, I participated in the Professional Development Program (PDP), the Institute for Scientist & Engineer Educators (ISEE), which teaches instructors how to design inquiry based activities for undergraduate researchers. I was part of a team of three, that designed an inquiry activity for REU students at UC San Diego. In the activity students would learn about the concept of signal-to-noise through their investigations of various science topics. Specifically, I took the TMT/IRIS sensitivity calculator and taught student how to simulate their science cases.

Volunteer & Lecturer, Astr 492 - Directed Research (Kepler Project), class to teach undergraduate students about basic research concepts using the Kepler data, 2013-2014

Teaching Assistant, Astr 170, University of Arizona, Prof. Edward Olszewski, 2013

Teaching Assistant, Astr 170, University of Arizona, Prof. Marcia Rieke, 2012

Graduate Student Representative, Faculty Hiring Committee, 2011

Co-organizer & Lecturer, Code Coffee, semi-weekly seminar for astronomy programming enthusiasts, 2013 - 2014

Organizer, Steward Science Coffee, department astro-ph coffee discussion, 2010 - 2014

Astronomy Representative, Associate Graduate Council for the College of Science, organization for graduate students in the College of Science to share experiences and solve problems, 2009 - 2012

Organizer, Colloquium Dinners, 2010 - 2012

Organizer & Lecturer, Steward Summer Computing Seminar, seminar to teach programming concepts with an astronomy theme to graduate students and postdocs, 2012

Organizer & Lecturer, Steward Summer Computing Seminar, seminar to teach programming concepts with an astronomy theme to graduate students and postdocs, 2011

Lecturer, Steward Summer Computing Seminar, seminar to teach programming concepts with an astronomy theme to graduate students, 2009

CONFERENCES, MEETINGS, & WORKSHOPS

TMT/IRIS PDR-2, Pasadena, CA, Sept 20 - 21, 2017, *Presentation*

Keck Science Meeting, Santa Cruz, CA, Sept 14 - 15, 2017, *Contributed Talk*

Keck/OSIRIS Hackathon, UCLA, Sept 5 - 7, 2017

TMT/IRIS Leads Meeting, May 30, 2017, *Presentation*

TMT/IRIS Science Face-to-Face Meeting, April 7, 2017, *Presentation*

Keck/OSIRIS Hackathon, UCLA, March 28 - 30, 2017

TMT/IRIS Science Team Meeting, Feb 3, 2017, *Presentation*

TMT/IRIS PDR-1, Pasadena, CA, Nov 17 - 18, 2016

HLS Meeting, Madrid, Spain, Oct 4 - 7, 2016, *Presentation*

Half a Decade of ALMA: Cosmic Dawns Transformed, Indian Wells, CA, Sept 2016, *Poster*

Keck/OSIRIS Hackathon, UCLA, Sept 7 - 9, 2016

TMT/IRIS Team Meeting, July 20, 2016 *Presentation*

AAS Summer Conference, San Diego, June 12 - 16, 2016, Thesis Talk

SPIE Conference, Edinburgh, Scotland, June 26 - July 2, 2016, *Poster*

TMT Science Forum, Kyoto, Japan, May 24 - 26, 2016

Keck/OSIRIS Hackathon, UCLA, May 4 - 6, 2016

TMT/IRIS Team Meeting, Mar 1, 2016, **Presentation**

UC San Diego, Astrophysics Seminar, Feb 10, 2016, Invited Talk

Galactic Center Workshop, UCLA, Dec 8 - 10, 2015

TMT/IRIS Face to Face Meeting, Pasadena, Nov 5 - 6, 2015

The Formation & Growth of Galaxies in the Young Universe, Obergurgle, Austria, April 2014, Contributed Talk

LBTO 2014 Users' Meeting, Tucson, AZ, March 2014, Contributed Talk

13th Synthesis Imaging Workshop, Socorro, NM, June 2012

Unveiling the Far-IR and Sub-mm Extragalactic Universe: Herschel, ALMA, CCAT, SPICA, and Beyond, UC-Irvine, CA, May 2011, *Poster*

A Decade of Exploration With The Magellan Telescopes, Pasadena, CA, April 2011, Contributed Talk

Star Formation Across Space and Time Frontier Science with the LBT and Other Large Telescopes, Tucson, AZ, April 2011

Scicoder Workshop, NYU, NY, June 2011

Herschel First Results Symposium, Noordwijk, Netherlands, May 2010, *Poster*

PUBLICATIONS SUBMITTED

1. "Infrared Galaxies in the Field of the Massive Cluster Abell S1063: Discovery of a Luminous Kiloparsec-Sized Giant H II Region in a Gravitationally Lensed IR-Luminous Galaxy at $z = 0.6$ ", **Walth, G. L.** et al (2017)
2. "A bright lensed galaxy at $z = 5.4$ with strong Ly α emission", McGreer, Ian D.; Clment, Benjamin; Mainali, Ramesh; Stark, Daniel P.; Gronke, Max; Dijkstra, Mark; Fan, Xiaohui; Bian, Fuyan; Frye, Brenda; Jiang, Linhua; Kneib, Jean-Paul; Limousin, Marceau; **Walth, Gregory**

PUBLICATIONS IN PREPARATION

1. "Two Bright Gravitationally Lensed Dusty, Star-Forming Galaxies in the Field of RXCJ20143.2-2144 at Redshifts $z = 2.0$ and $z = 4.7$ ", **Walth, G. L.** et al. in prep
2. "The Rest-Frame Optical Spectra of *Herschel* Selected Gravitationally Lensed Dusty, Star-Forming Galaxies", **Walth, G. L.** et al. in prep

3. “In the Field of MACSJ0647: A Population of Green Pea Galaxies at Redshifts $1 < z < 2$ ”,
Walth, G. L. et al. in prep

PUBLICATIONS

1. “Molecular gas properties of a lensed star-forming galaxy at z 3.6: a case study”,
Dessauges-Zavadsky, M.; Zamojski, M.; Rujopakarn, W.; Richard, J.; Sklias, P.; Schaerer, D.; Combes, F.; Ebeling, H.; Rawle, T. D.; Egami, E.; Boone, F.; Clment, B.; Kneib, J.-P.; Nyland, K.; **Walth, G.**, 2017, *A&A.*, 605, 81D
2. “Evidence for a Hard Ionizing Spectrum from a $z=6.11$ Stellar Population”,
Mainali, Ramesh; Kollmeier, Juna A.; Stark, Daniel P.; Simcoe, Robert A.; **Walth, Greg**; Newman, Andrew B.; Miller, Daniel R., 2017, *ApJ*, 836L, 14M
3. “Solar abundances of rock-forming elements, extreme oxygen and hydrogen in a young polluted white dwarf”,
Farihi, J.; Koester, D.; Zuckerman, B.; Vican, L.; Gnsicke, B. T.; Smith, N.; **Walth, G.**; Breedt, E., 2016, *MNRAS*, 463, 3186F.
4. “The InfraRed Imaging Spectrograph (IRIS) for TMT: latest science cases and simulations”,
Wright, Shelley A.; **Walth, Gregory**; Do, Tuan; Marshall, Daniel; Larkin, James E.; Moore, Anna M.; Adamkovics, Mate; Andersen, David; Armus, Lee; Barth, Aaron; Cote, Patrick; Cooke, Jeff; Chisholm, Eric M.; Davidge, Timothy; Dunn, Jennifer S.; Dumas, Christophe; Ellerbroeck, Brent L.; Ghez, Andrea M.; Hao, Lei; Hayano, Yutaka; Liu, Michael; Lopez-Rodriguez, Enrique; Lu, Jessica R.; Mao, Shude; Marois, Christian; Pandey, Shashi B.; Philips, Andrew C.; Schoeck, Matthias; Subramaniam, Anna-purni; Subramanian, Smitha; Suzuki, Ryuji; Tan, Jonathan C.; Terai, Tsuyoshi; Treu, Tommaso; Simard, Luc; Weiss, Jason L.; Wincensten, James; Wong, Michael; Zhang, Kai, Proceeding 9909-05 of the SPIE Astronomical Telescopes + Instrumentation 2016.
5. “The Infrared Imaging Spectrograph (IRIS) for TMT: Data Reduction System”,
Walth, Gregory; Wright, Shelley A.; Weiss, Jason; Larkin, James E.; Moore, Anna M.; Chapin, Edward L.; Do, Tuan; Dunn, Jennifer; Ellerbroek, Brent; Gillies, Kim; Hayano, Yutaka; Johnson, Chris; Marshall, Daniel; Riddle, Reed L.; Simard, Luc; Sohn, Ji Man; Suzuki, Ryuji; Wincensten, James, Proceeding 9913-165 of the SPIE Astronomical Telescopes + Instrumentation 2016.
6. “The Infrared Imaging Spectrograph (IRIS) for TMT: motion planning with collision avoidance for the on-instrument wavefront sensors”,
Chapin, Edward L.; Dunn, Jennifer; Weiss, Jason; Gillies, Kim; Hayano, Yutaka; Johnson, Chris; Larkin, James; Moore, Anna; Riddle, Reed L.; Sohn, Ji Man; Smith, Roger; Suzuki, Ryuji; **Walth, Gregory**; Wright, Shelley, Proceeding 9913-29 of the SPIE Astronomical Telescopes + Instrumentation 2016.
7. “A complete census of Herschel-detected infrared sources within the HST Frontier Fields”,
Rawle, T. D.; Altieri, B.; Egami, E.; Prez-Gonzalez, P. G.; Boone, F.; Clement, B.; Ivison, R. J.; Richard, J.; Rujopakarn, W.; Valtchanov, I.; **Walth, G.**; Weiner, B. J.; Blain, A. W.; Dessauges-Zavadsky, M.; Kneib, J.-P.; Lutz, D.; Rodighiero, G.; Schaerer, D.; Smail, I., 2016, *MNRAS*, 459, 1626R.

8. “Spectroscopic detection of CIV in a galaxy at $z = 7.045$: Implications for the ionizing spectra of reionization-era galaxies”,
Stark, Daniel P.; **Walth, Gregory**; Charlot, Stephane; Clement, Benjamin; Feltre, Anna; Gutkin, Julia; Richard, Johan; Mainali, Ramesh; Robertson, Brant; Siana, Brian; Tang, Mengtao; Schenker, Matthew, 2015, MNRAS, 454, 1393S.
9. “Star formation in the massive cluster merger Abell 2744”,
Rawle, T. D.; Altieri, B.; Egami, E.; Pérez-González, P. G.; Richard, J.; Santos, J. S.; Valtchanov, I.; **Walth, G.**; Bouy, H.; Haines, C. P.; Okabe, N., 2014, MNRAS, 442, 196R.
10. “[C II] and 12CO(1-0) Emission Maps in HLSJ091828.6+514223: A Strongly Lensed Interacting System at $z = 5.24$ ”,
Rawle, T. D.; Egami, E.; Bussmann, R. S.; Gurwell, M.; Ivison, R. J.; Boone, F.; Combes, F.; Danielson, A. L. R.; Rex, M.; Richard, J.; Smail, I.; Swinbank, A. M.; Altieri, B.; Blain, A. W.; Clément, B.; Dessauges-Zavadsky, M.; Edge, A. C.; Fazio, G. G.; Jones, T.; Kneib, J.-P.; Omont, A.; Pérez-González, P. G.; Schaerer, D.; Valtchanov, I.; van der Werf, P. P.; **Walth, G.**; Zamojski, M.; Zemcov, M., 2014, ApJ, 783, 59R.
11. “An extended Herschel drop-out source in the center of AS1063: a normal dusty galaxy at $z = 6.1$ or SZ substructures?”,
Boone, F.; Clément, B.; Richard, J.; Schaerer, D.; Lutz, D.; Weiß, A.; Zemcov, M.; Egami, E.; Rawle, T. D.; **Walth, G. L.**; Kneib, J.-P.; Combes, F.; Smail, I.; Swinbank, A. M.; Altieri, B.; Blain, A. W.; Chapman, S.; Dessauges-Zavadsky, M.; Ivison, R. J.; Knudsen, K. K.; Omont, A.; Pelló, R.; Pérez-González, P. G.; Valtchanov, I.; van der Werf, P.; Zamojski, M., 2013, A&A, 559L, 1B.
12. “The [O III] Nebula of the Merger Remnant NGC 7252: A Likely Faint Ionization Echo”,
Schweizer, Francois; Seitzer, Patrick; Kelson, Daniel D.; Villanueva, Edward V.; **Walth, Gregory L.**, 2013, ApJ, 773, 148S.
13. “Mid-infrared Determination of Total Infrared Luminosity and Star Formation Rates of Local and High-redshift Galaxies”,
Rujopakarn, W.; Rieke, G. H.; Weiner, B. J.; Pérez-González, P.; Rex, M.; **Walth, G. L.**; Kartaltepe, J. S., 2013, ApJ, 767, 73R.
14. “Projected Rotational Velocities and Stellar Characterization of 350 B Stars in the Nearby Galactic Disk”,
Bragança, G. A.; Daflon, S.; Cunha, K.; Bensby, T.; Oey, M. S.; **Walth, G.**, 2012, AJ, 144, 130B.
15. “The Arizona CDFS Environment Survey (ACES): A Magellan/IMACS Spectroscopic Survey of the Chandra Deep Field-South”,
Cooper, Michael C.; Yan, Renbin; Dickinson, Mark; Juneau, Stphanie; Lotz, Jennifer M.; Newman, Jeffrey A.; Papovich, Casey; Salim, Samir; **Walth, Gregory**; Weiner, Benjamin J.; Willmer, Christopher N. A., 2012, MNRAS, 425, 2116C.
16. “Discovery of “Warm Dust” Galaxies in Clusters at $z \sim 0.3$: Evidence for Stripping of Cool Dust in the Dense Environment?”,
Rawle, T. D.; Rex, M.; Egami, E.; Chung, S. M.; Pérez-González, P. G.; Smail, I.; **Walth, G.**; Altieri, B.; Appleton, P.; Berciano Alba, A.; Blain, A. W.; Dessauges-Zavadsky, M.; Fadda, D.; Gonzalez, A. H.; Pereira, M. J.; Valtchanov, I.; van der Werf, P. P.; Zemcov, M., 2012, ApJ, 756, 106R.

17. “The Relation between Cool Cluster Cores and Herschel-detected Star Formation in Brightest Cluster Galaxies”,
Rawle, T. D.; Edge, A. C.; Egami, E.; Rex, M.; Smith, G. P.; Altieri, B.; Fiedler, A.; Haines, C. P.; Pereira, M. J.; Pérez-González, P. G.; Portouw, J.; Valtchanov, I.; **Walth, G.**; van der Werf, P. P.; Zemcov, M., 2012, *ApJ*, 747, 29R.
18. “Keck Spectroscopy of Lyman-break Galaxies and Its Implications for the UV-continuum and Ly Luminosity Functions at $z > 6$ ”,
Jiang, Linhua; Egami, Eiichi; Kashikawa, Nobunari; **Walth, Gregory**; Matsuda, Yuichi; Shimasaku, Kazuhiro; Nagao, Tohru; Ota, Kazuaki; Ouchi, Masami, 2011, *ApJ*, 743, 65J.
19. “First detection of the Sunyaev Zel’dovich effect increment at $\lambda < 650 \mu\text{m}$ ”,
Zemcov, M.; Rex, M.; Rawle, T. D.; Bock, J. J.; Egami, E.; Altieri, B.; Blain, A. W.; Boone, F.; Bridge, C. R.; Clément, B.; Combes, F.; Dowell, C. D.; Dessauges-Zavadsky, M.; Fadda, D.; Ilbert, O.; Ivison, R. J.; Jauzac, M.; Kneib, J.-P.; Lutz, D.; Pelló, R.; Pereira, M. J.; Pérez-González, P. G.; Richard, J.; Rieke, G. H.; Rodighiero, G.; Schaerer, D.; Smith, G. P.; Valtchanov, I.; **Walth, G. L.**; van der Werf, P.; Werner, M. W., 2010, *A&A*, 518L, 16Z.
20. “Improving the identification of high- z Herschel sources with position priors and optical/NIR and FIR/mm photometric redshifts”,
Pérez-González, P. G.; Egami, E.; Rex, M.; Rawle, T. D.; Kneib, J.-P.; Richard, J.; Johansson, D.; Altieri, B.; Blain, A. W.; Bock, J. J.; Boone, F.; Bridge, C. R.; Chung, S. M.; Clément, B.; Clowe, D.; Combes, F.; Cuby, J.-G.; Dessauges-Zavadsky, M.; Dowell, C. D.; Espino-Briones, N.; Fadda, D.; Fiedler, A. K.; Gonzalez, A.; Horellou, C.; Ilbert, O.; Ivison, R. J.; Jauzac, M.; Lutz, D.; Pelló, R.; Pereira, M. J.; Rieke, G. H.; Rodighiero, G.; Schaerer, D.; Smith, G. P.; Valtchanov, I.; **Walth, G. L.**; van der Werf, P.; Werner, M. W.; Zemcov, M., 2010, *A&A*, 518L, 15P.
21. “Deep Herschel view of obscured star formation in the Bullet cluster”,
Rawle, T. D.; Chung, S. M.; Fadda, D.; Rex, M.; Egami, E.; Pérez-González, P. G.; Altieri, B.; Blain, A. W.; Bridge, C. R.; Fiedler, A. K.; Gonzalez, A. H.; Pereira, M. J.; Richard, J.; Smail, I.; Valtchanov, I.; Zemcov, M.; Appleton, P. N.; Bock, J. J.; Boone, F.; Clément, B.; Combes, F.; Dowell, C. D.; Dessauges-Zavadsky, M.; Ilbert, O.; Ivison, R. J.; Jauzac, M.; Kneib, J.-P.; Lutz, D.; Pelló, R.; Rieke, G. H.; Rodighiero, G.; Schaerer, D.; Smith, G. P.; **Walth, G. L.**; van der Werf, P.; Werner, M. W., 2010, *A&A*, 518L, 14R.
22. “The far-infrared/submillimeter properties of galaxies located behind the Bullet cluster”,
Rex, M.; Rawle, T. D.; Egami, E.; Pérez-González, P. G.; Zemcov, M.; Aretxaga, I.; Chung, S. M.; Fadda, D.; Gonzalez, A. H.; Hughes, D. H.; Horellou, C.; Johansson, D.; Kneib, J.-P.; Richard, J.; Altieri, B.; Fiedler, A. K.; Pereira, M. J.; Rieke, G. H.; Smail, I.; Valtchanov, I.; Blain, A. W.; Bock, J. J.; Boone, F.; Bridge, C. R.; Clément, B.; Combes, F.; Dowell, C. D.; Dessauges-Zavadsky, M.; Ilbert, O.; Ivison, R. J.; Jauzac, M.; Lutz, D.; Omont, A.; Pelló, R.; Rodighiero, G.; Schaerer, D.; Smith, G. P.; **Walth, G. L.**; van der Werf, P.; Werner, M. W.; Austermann, J. E.; Ezawa, H.; Kawabe, R.; Kohno, K.; Perera, T. A.; Scott, K. S.; Wilson, G. W.; Yun, M. S., 2010, *A&A*, 518L, 13R.
23. “The Herschel Lensing Survey (HLS): Overview”,
Egami, E.; Rex, M.; Rawle, T. D.; Pérez-González, P. G.; Richard, J.; Kneib, J.-P.; Schaerer, D.; Altieri, B.; Valtchanov, I.; Blain, A. W.; Fadda, D.; Zemcov, M.; Bock, J. J.; Boone, F.; Bridge, C. R.; Clément, B.; Combes, F.; Dessauges-Zavadsky, M.; Dowell, C. D.; Ilbert, O.; Ivison, R. J.; Jauzac, M.; Lutz, D.; Metcalfe, L.; Omont, A.; Pelló, R.; Pereira, M. J.; Rieke, G. H.; Rodighiero, G.; Smail, I.; Smith, G. P.; Tramoy, G.; **Walth, G. L.**; van der Werf, P.; Werner, M. W., 2010, *A&A*, 518L, 12E.

24. “The Survey for Ionization in Neutral Gas Galaxies. III. Diffuse, Warm Ionized Medium and Escape of Ionizing Radiation”,
Oey, M. S.; Meurer, G. R.; Yelda, S.; Furst, E. J.; Caballero-Nieves, S. M.; Hanish, D. J.; Levesque, E. M.; Thilker, D. A.; **Walth, G. L.**; Bland-Hawthorn, J.; Dopita, M. A.; Ferguson, H. C.; Heckman, T. M.; Doyle, M. T.; Drinkwater, M. J.; Freeman, K. C.; Kennicutt, R. C., Jr.; Kilborn, V. A.; Knezek, P. M.; Koribalski, B.; Meyer, M.; Putman, M. E.; Ryan-Weber, E. V.; Smith, R. C.; Staveley-Smith, L.; Webster, R. L.; Werk, J.; Zwaan, M. A., 2007, ApJ, 661, 801O.
25. “Hierarchical Triggering of Star Formation by Superbubbles in W3/W4”,
Oey, M. S.; Watson, Alan M.; Kern, Katie; **Walth, Gregory L.**, 2005, AJ, 129, 393O.

REFERENCES

Prof. Shelley Wright

Assistant Professor
UC San Diego
Center for Astrophysics & Space Sciences
9500 Gilman Drive
La Jolla, CA 92093-0424 USA
(858) 534-3316, saw@physics.ucsd.edu

Dr. Eiichi Egami

Astronomer
University of Arizona, Department of Astronomy
Steward Observatory
933 N. Cherry Avenue
Tucson, AZ 89721 USA
(520) 621-3161, eegami@as.arizona.edu

Dr. Daniel Kelson

Staff Associate
Carnegie Observatories
813 Santa Barbara Street,
Pasadena, California, 91101 USA
(626) 304-0285, kelson@obs.carnegiescience.edu

Prof. Daniel Stark

Assistant Professor
University of Arizona, Department of Astronomy
Steward Observatory
933 N. Cherry Avenue
Tucson, AZ 89721 USA
(520) 621-5904, dpstark@email.arizona.edu