

ANNE MARIE MEDLING

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PROFESSIONAL APPOINTMENTS

Assistant Professor of Astronomy August 2019 – present
University of Toledo; College of Natural Sciences and Mathematics

Hubble Fellow August 2018 – July 2019
University of Toledo; Faculty sponsor: JD Smith
August 2016 – July 2018
California Institute of Technology; Faculty sponsor: Phil Hopkins

Postdoctoral Fellow October 2013 – July 2016
Australian National University; Supervisor: Lisa J. Kewley

EDUCATION

Doctor of Philosophy, Astronomy & Astrophysics June 2013
University of California, Santa Cruz, CA
Thesis: Unveiling the Hearts of Major Galaxy Mergers with Laser Guide Star Adaptive Optics
Advisor: Dr. Claire Max

Master of Science, Astronomy & Astrophysics December 2009
University of California, Santa Cruz, CA

Bachelor of Science, Astronomy & Astrophysics June 2006
California Institute of Technology, Pasadena, CA

AWARDS, HONORS, AND COMPETITIVE GRANTS

National Science Foundation Astronomy & Astrophysics Grant (~333k research grant) 2020-2023
NRAO Student Observing Support (~32.5k research grant) 2020-2022
NASA Hubble Fellowship (~\$367k research grant) 2016-2019
ANU Early Career Researcher Travel Grant (for international conference travel; AU\$2100) 2015
ARCS (Achievement Rewards for College Scientists) Fellowship (\$10k) 2012-2013
National Science Foundation Graduate Research Fellowship (~\$125k) 2009-2012
University of California Regents Fellowship (\$10k) 2007-2008
Fulbright Fellowship (one year independent research in Italy; ~€15k) 2006-2007
Finalist in Perpall Speaking Competition 2004

PUBLICATION STATISTICS (COMPLETE BIBLIOGRAPHY ATTACHED)

- 7 first-authored peer-reviewed publications
- 5 peer-reviewed publications first-authored by undergraduate and graduate students under my supervision
- 3 first-authored non peer-reviewed publications
- **h-index: 30 (18 as major author);** total citations: 2950+
- average refereed publication read 600+ times
- 87 total peer-reviewed publications
- 7 total non peer-reviewed proceedings

Five most significant scientific publications (with grad students I supervised noted):

1. Marino, A. F., Villanova, S., Piotto, G., Milone, A. P., Momany, Y., Bedin, L. R., & **Medling, A. M.** 2008, “Spectroscopic and photometric evidence of two stellar populations in the Galactic globular cluster NGC 6121 (M 4)”, *Astronomy & Astrophysics*, 490, 625
311 citations
2. Bryant, J. J., Owers, M. S., Robotham, A. S. G., Croom, S. M., Driver, S. P., Drinkwater, M. J., Lorente, N. P. F., Cortese, L., Scott, N., and 49 others including **Medling, A. M.** 2015, “The SAMI Galaxy Survey: instrument specification and target selection”, *Monthly Notices of the Royal Astronomical Society*, 447, 2857
301 citations
3. Ho, I-T., Kewley, L. J., Dopita, M. A., **Medling, A. M.**, Allen, J. T., Bland-Hawthorn, J., Bloom, J. V., Bryant, J. J., Croom, S. M., and 8 others. 2014, “The SAMI Galaxy Survey: shocks and outflows in a normal star-forming galaxy”, *Monthly Notices of the Royal Astronomical Society*, 444, 3894
126 citations
4. Allen, J. T., Croom, S. M., Konstantopoulos, I. S., Bryant, J. J., Sharp, R., Cecil, G. N., Fogarty, L. M. R., Foster, C., Green, A. W., and 39 others including **Medling, A. M.** 2015, “The SAMI Galaxy Survey: Early Data Release”, *Monthly Notices of the Royal Astronomical Society*, 446, 1567
118 citations
5. Cortese, L., Fogarty, L. M. R., Bekki, K., van de Sande, J., Couch, W., Catinella, B., Colless, M., Obreschkow, D., Taranu, D., and 28 others including **Medling, A. M.** 2016, “The SAMI Galaxy Survey: the link between angular momentum and optical morphology”, *Monthly Notices of the Royal Astronomical Society*, 463, 170
105 citations

Five most significant first-author scientific publications:

1. **Medling, A. M.**, Cortese, L., Croom, S. M., Green, A. W., Groves, B., Hampton, E., Ho, I-T., Davies, L. J. M., Kewley, L. J., and 36 others. 2018, “The SAMI Galaxy Survey: Spatially Resolving the Main Sequence of Star Formation”, *Monthly Notices of the Royal Astronomical Society*, 475, 5194
56 citations
2. **Medling, A. M.**, U, V., Guedes, J., Max, C. E., Mayer, L., Armus, L., Holden, B., Roškar, R. & Sanders, D. 2014, “Stellar and Gaseous Nuclear Disks Observed in Nearby (U)LIRGs”, *The Astrophysical Journal*, 784, 70
46 citations
3. **Medling, A. M.** U, V., Rich, J. A., Kewley, L. J., Armus, L., Dopita, M. A., Max, C. E., Sanders, D. & Sutherland, R. 2015, “Shocked Gas in IRAS F17207-0014: ISM Collisions and Outflows”, *Monthly Notices of the Royal Astronomical Society*, 448, 2301
23 citations
4. **Medling, A. M.**, Ammons, S. M., Max, C. E., Davies, R. I., Engel, H. & Canalizo, G. 2011, “Mass of the Southern Black Hole in NGC 6240 from Laser Guide Star Adaptive Optics”, *The Astrophysical Journal*, 743, 32
21 citations
5. **Medling, A. M.**, U, V., Max, C. E., Sanders, D. B., Armus, L., Holden, B., Mieda, E., Wright, S. A. & Larkin, J. E. 2015, “Following Black Hole Scaling Relations Through Gas-Rich Mergers”, *The Astrophysical Journal*, 803, 61
18 citations

INVITED CONFERENCE TALKS AND COLLOQUIA

13. *Tracing Black Hole Fueling and Feedback with Adaptive Optics and ALMA: Observational Constraints for Physical Models* November 2019
University of Kansas Physics & Astronomy Colloquium; Lawrence, KS
12. *Tracing Black Hole Fueling and Feedback with AO and ALMA* July 2019
Behind the Curtain of Dust III - Sexten Center for Astrophysics workshop; Sesto, Italy
11. *Tracing Black Hole Fueling and Feedback with AO and ALMA* February 2019
Ohio State University Astronomy Colloquium; Columbus, OH
10. *KOALA-GOALS: the Keck-OSIRIS AO LIRG Analysis Survey* November 2018
NRAO Workshop: From Spiral Galaxies to CONs: Star Formation, AGN and the ISM that Fuels Them; Charlottesville, VA
9. *From Nuclear Outflows to Galactic Winds* September 2018
University of Illinois Astronomy Colloquium; Urbana, IL
8. *The Coevolution of Galaxies and their Supermassive Black Holes* June 2018
Astrophysical Frontiers in the Next Decade and Beyond: Planets, Galaxies, Black Holes, and the Transient Universe; Portland, OR
7. *Black Hole Growth and Feedback in Gas-Rich Galaxy Mergers* February 2018
University of Toledo Physics and Astronomy Colloquium; Toledo, OH
6. *Black Hole Growth and Feedback in Gas-Rich Galaxy Mergers* September 2016
University of Michigan Astronomy Colloquium; Ann Arbor, MI
5. *AGN Feedback on Small and Large Scales* August 2016
Mapping the Transformation of Galaxies Across Time and Space; Avalon, CA
4. *From Nuclear Outflows to Galactic Winds* February 2016
Sweeping Galaxies Clean: cold molecular outflows as drivers of galaxy evolution; Sexton, Italy
3. *Conditions in the Nuclei of Nearby Gas-Rich Galaxy Mergers* July 2015
International Pulsar Timing Array Meeting Black Hole Workshop; Leura, NSW, Australia
2. *Accretion, Outflows, and AGN in 3D* July 2015
A 3D View on Galaxy Evolution: from Statistics to Physics; Heidelberg, Germany
1. *Fueling and Feedback Across Cosmic Time* May 2014
Multi-wavelength surveys: Galaxy formation and evolution from the early universe to today; Dubrovnik, Croatia

TEACHING EXPERIENCE AND FORMAL TRAINING

- University of Toledo Course Assignments:
ASTR2020: Stars, Galaxies, and the Universe Spring 2021
ASTR1010: Survey of Astronomy Fall 2019, Fall 2021
PHYS6020/8020: Astronomy Journal Seminar Fall 2019
- Instructor of Observational Techniques (Honours/PhD level course) 2014, 2016
at the ANU, two consecutive offerings
- Adaptive Optics Summer School Lab Manager 2012, 2013
- Adaptive Optics Summer School Lab Instructor 2011, 2012
- Certificate in Teaching Innovative Laboratory Experiences from the UCSC ISEE Summer 2010
(Institute for Scientist and Engineer Educators)

- Participant in:

AAS Workshop: “Teaching for Equity”	2019
Caltech Project for Effective Teaching Workshop: “Making Group Work Purposeful and Inclusive”	2017
ISEE Workshop: “Three Kinds of Learning”	2011
ISEE Professional Development Program	2009–2011

INVITED LECTURES

3. *Boosting Your Academic Writing* July 2016
Harley Wood School of Astronomy; Stanwell Tops, Australia
2. *Observing Skills* June 2016
Research School of Astronomy & Astrophysics Winter School; Canberra, Australia
1. *Boosting Your Academic Writing* December 2015
Mt Stromlo Christmas Seminars; Canberra, Australia

ADVISING EXPERIENCE

- Mary Braun (UT Undergraduate Student, advisor) 2021 – present
“Wind Signatures in Shocked Poststarburst Galaxies”
- Taylor Tomko (UT Undergraduate Student, advisor) 2021 – present
“Wind Signatures in Shocked Poststarburst Galaxies”
- Matthew Newhouse (UT Undergraduate Student, advisor) 2020 – 2021
“Wind Signatures in Shocked Poststarburst Galaxies”
- Alexander Thompson (UT Undergraduate Student, advisor) 2020 – 2021
“Wind Signatures in Shocked Poststarburst Galaxies”
- Thomas Johnson (UT Undergraduate Student, advisor) 2019 – 2021
“Wind Signatures in Shocked Poststarburst Galaxies”
- Jackson Ford Tatum (UT Undergraduate Student, advisor) 2019 – present
“Mapping Ionized Gas in Ultraluminous Infrared Galaxies”
- Thomas Routt (UT Undergraduate Student, advisor) 2019 – present
“Quantifying the Effects of Hybrid Radio Jets on the Interstellar Medium in NGC 612”
- James Agostino (UT PhD Student, advisor) 2019 – present
“The SAMI Star-forming Main Sequence”
- Antoniu Fodor (UT PhD Student, advisor) 2019 – present
“Is Bursty Star Formation More Effective at Driving Winds?”
- Victor Johnston (UT PhD Student, advisor) 2019 – present
“Winds in the SAMI Galaxy Survey”
- Carson Adams (Caltech Undergraduate Student, co-advisor) 2017 – 2018
“Understanding shocked gas using Integral Field Spectroscopy of SPOGs”
- Laura Jaliff (Caltech Undergraduate Student, co-advisor) 2017 – 2018
“Characterizing the environments of shocked poststarburst galaxies”
- Matthew Orr (Caltech Graduate Student, co-advisor) 2016 – 2020
“Star Formation Feedback Signatures in Gas Velocity Dispersions”
- Adam Thomas (ANU PhD Student, co-advisor) 2015 – 2018
“The Ionizing Radiation and Gas-Phase Metallicity in Narrow-Line Regions of Seyfert Galaxies”
- Laura Simpson (ANU Undergraduate Student) 2015 – 2016
“Star Formation in Turbulent Environments”

- Sarah Leslie (ANU Masters Student, co-advisor) 2014 – 2016
“Galaxy Winds and the Star Formation Main Sequence”
- Natalia Lowson (ANU Undergraduate Student) 2014 – 2016
“Emission Line Tracers of Galaxy Winds”
- Rebecca Davies (ANU PhB Student) 2014 – 2016
“Nuclear Star Cluster Age Distributions in the Central Kiloparsec of MCG+08-11-002”
- Gerald Rude, (UC Riverside Graduate Student, co-advisor) 2012–2013
“The Kinematics of the Inner Kiloparsec of Cygnus A”
- Kevin Aylor (UC Riverside Undergraduate Student, co-advisor) 2012–2013
“Measuring the Black Hole Mass of Cygnus A”

PROFESSIONAL MEMBERSHIPS

- Member, ARC Centre of Excellence for All Sky Astrophysics in 3D (ASTRO 3D) 2019–present
- Member, Keck/LIGER Science Team 2019–present
- Member, Hector Science Team 2019–present
- Junior Member, TMT/IRIS Science Team 2018–present
- Member, JWST Early Release Science Program #1328 Team 2017–present
“A JWST Study of the Starburst-AGN Connection in Merging LIRGs”, PIs: L. Armus & A. Evans
- Member, Australian Astronomical Observatory Users’ Committee (AAOUC/AATUC) 2017–2020
- Member, Keck All-sky Precision Adaptive optics (KAPA) Science Team 2016–present
- Member, Great Observatories All-sky LIRG Survey 2015–present
- Member, Shocked POststarburst Galaxy Survey 2015–present
- Builder, SAMI Galaxy Survey 2015–present
and Deputy Science Coordinator 2014–2018
- Full member, American Astronomical Society 2013–present

SERVICE EXPERIENCE

ASSESSMENT:

- Referee, *The Astrophysical Journal*, *The Astronomical Journal*, *Galaxies*,
Monthly Notices of the Royal Astronomical Society, *Astronomy & Astrophysics*,
Nature, *Nature Astronomy* 2014–present
- Panelist, NASA ADAP Review 2021
- External reviewer, Hubble Space Telescope Large Program proposals 2017
- Peer reviewer, NASA Earth and Space Science Fellowship Program 2017
- Reviewer, Hubble Space Telescope Midcycle proposals 2016
- Member, ANU Graduate Admissions Committee 2014–2015
- Judge, Chambliss Poster Competition (AAS) 2014

OTHER SERVICE:

- Organizer and pod leader, Mentoring Program,
University of Toledo Physics & Astronomy Dept 2021 – present
- Member, Scientific Organizing Committee, EAS2020 symposium 2020
“Stellar & Gas Kinematics in Galaxies Across Cosmic Time”, virtual meeting
- Organizer, UT Astronomy Write Club 2018 – present
- Mentor, Caltech Center for Diversity’s “Women Mentoring Women” Program 2017 – 2018

- Organizer, Academic Writing Retreats:
 - Hopkins/FIRE Group 2017
 - Caltech/Carnegie Postdoc Women 2016
 - SAMI+Kewley/GEARS3D Groups 2015
 - Kewley/GEARS3D Group 2014
- Member, Scientific Organizing Committee, “From Black Hole to Environment” in Canberra, Australia 2017
- Member, Astronomy Allies 2015–present
- Organizer, Stromlo Weekly Women’s Writing Mornings 2014 – 2016
- Organizer, Kewley Group Meetings 2014 – 2015
- Member, Scientific Organizing Committee, Keck Science Meeting 2014
- Organizer, Graduate Student Mentorship Program, UCSC Astronomy Dept 2010 – 2011
- Student-Faculty Liaison for Junior Grad Students, UCSC Astronomy Dept 2008 – 2009
- Organizer, Prospective Graduate Student Visit, UCSC Astronomy Dept 2008

SUCCESSFUL OBSERVING PROPOSALS

(as PI or major Co-I; with noted graduate student PIs I supervised)

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31. DeVeny/Lowell Discovery Telescope (Semester 2021B; PI: Fodor), *Early Warning Signs of Quenching*, 6 nights
 30. DeVeny/Lowell Discovery Telescope (Semester 2021A; PI: Fodor), *Early Warning Signs of Quenching*, 6 nights
 29. DeVeny/Lowell Discovery Telescope (Semester 2020B; PI: Fodor), *Early Warning Signs of Quenching*, 6 nights
 28. DeVeny/Discovery Channel Telescope (Semester 2020A; PI: Fodor), *Early Warning Signs of Quenching*, 6 nights
 27. DeVeny/Discovery Channel Telescope (Semester 2019B), *Early Warning Signs of Quenching*, 5 nights
 26. ALMA (Cycle 7), *Cold Gas Around Black Holes: Fueling and Feedback in Galaxy Mergers*, 17.8 hours
 25. OSIRIS/Keck Observatory (Semester 2019B), *Testing Black Hole Accretion Rate Prescriptions*, 2 half nights
 24. ALMA (Cycle 6), *Cold Gas Around Black Holes: Fueling and Feedback in Galaxy Mergers*, 14 hours
 23. OSIRIS/Keck Observatory (Semester 2018B), *Black Hole Accretion Rate Prescriptions*, 3 nights
 22. CWI/Palomar Observatory (Semester 2018B), *Warning Signs of Early Quenching*, 4 nights
 21. OSIRIS/Keck Observatory (Semester 2018A), *Evolution of Black Hole Growth*, 1 night
 20. CWI/Palomar Observatory (Semester 2018A), *Early Warning Signs of Quenching*, 2 nights
 19. OSIRIS/Keck Observatory (Semester 2017B), *Evolution of Black Hole Growth*, 2 nights
 18. CWI/Palomar Observatory (Semester 2017B), *Early Warning Signs of Quenching*, 2 nights
 17. OSIRIS/Keck Observatory (Semester 2017A), *Evolution of Black Hole Growth*, 3 nights
 16. CWI/Palomar Observatory (Semester 2017A), *Early Warning Signs of Quenching*, 2 nights
 15. NIRC2/Keck Observatory (Semester 2016B), *Phase Stratification in a Starburst-Driven Wind*, 1 half night
 14. OSIRIS/Keck Observatory (Semester 2015A), *Evolution of Black Hole Growth during Major Galaxy Mergers*, 1 night
 13. OSIRIS/Keck Observatory (Semester 2014B), *Evolution of Black Hole Growth during Major Galaxy Mergers*, 1 night

12. WiFeS/ANU 2.3m Telescope (Semester 2016B), *Dissecting Quenching Galaxies*, 3 nights
11. WiFeS/ANU 2.3m Telescope (Semester 2015C), *Tracing the Large-Scale Effects of Outflows*, 3 nights
10. WiFeS/ANU 2.3m Telescope (Semester 2015B), *Studying galaxies at the moment of quenching their star formation*, 2 half nights
9. WiFeS/ANU 2.3m Telescope (Semester 2014D), *Tracing the Large-Scale Effects of Outflows*, 4 nights
8. WiFeS/ANU 2.3m Telescope (Semester 2014C), *Tracing the Large-Scale Effects of Outflows*, 3 nights
7. WiFeS/ANU 2.3m Telescope (Semester 2014B), *Tracing the Large-Scale Effects of Outflows*, 4 nights
6. OSIRIS/Keck Observatory (Semester 2014A; PI: Claire Max), *Evolution of Black Hole Scaling Relations and Nuclear Disks during Major Galaxy Mergers*, 1 night
5. OSIRIS/Keck Observatory (Semester 2013A; PI: Claire Max), *Evolution of Black Hole Scaling Relations and Nuclear Disks during Major Galaxy Mergers*, 1 half-night
4. NIRC2/Keck Observatory (Semester 2012B; PI: Claire Max), *Ages of Nuclear Star Clusters in the Cores of Late-Stage Gas-Rich Galaxy Mergers*, 3 half-nights and 4 quarter-nights
3. OSIRIS/Keck Observatory (Semester 2011B; PI: Claire Max), *Quantifying the Spatial Variation of AGN Influence and Star Formation in U/LIRGs*, 1 three-quarters night
2. OSIRIS/Keck Observatory (Semester 2011A; PI: Claire Max), *Quantifying the Spatial Variation of AGN Influence and Star Formation in U/LIRGs*, 1 full night and 1 half-night
1. OSIRIS/Keck Observatory (Semester 2010B; PI: Claire Max), *Physical Conditions and Black Holes in the Cores of Late-Stage Galaxy Mergers*, 2 half-nights

OBSERVING EXPERIENCE

- OSIRIS/Keck Observatory, integral field spectroscopy + adaptive optics – 39 nights
- NIRC2/Keck Observatory, imaging + adaptive optics – 13 nights
- KCWI/Keck Observatory, integral field spectroscopy – 1 night
- CWI/Palomar Observatory, integral field spectroscopy – 8 nights
- SAMI/AAT, integral field spectroscopy – 13 nights
- WiFeS/ANU 2.3m Telescope, integral field spectroscopy – 29 nights
- DeVeny/Lowell Discovery Telescope, long-slit spectroscopy – 6 nights

CONTRIBUTED CONFERENCE TALKS, COLLOQUIA, AND SEMINARS

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| 49. From AGN to Starburst: A Multi-wavelength Synergy; Guiyang, China | August 2019 |
| 48. Hubble Fellows Symposium; Space Telescope Science Institute, Baltimore, MD | March 2019 |
| 47. 233rd AAS Meeting; Seattle, WA | January 2019 |
| 46. Keck Science Meeting; California Institute of Technology | September 2018 |
| 45. GalFRESCA; California Institute of Technology | August 2018 |
| 44. Pasadena Astronomy Postdoc Retreat; Lake Arrowhead, CA | May 2018 |
| 43. Rising Stars in Physics; Massachusetts Institute of Technology | April 2018 |
| 42. Hubble Fellows Symposium; Space Telescope Science Institute, Baltimore, MD | March 2018 |
| 41. Astronomy Hot Topics; University of Toledo, OH | February 2018 |
| 40. Pasadena Astronomy Postdoc Retreat; Lake Arrowhead, CA | May 2017 |
| 39. Astronomy Tea Talk; California Institute of Technology | April 2017 |
| 38. Hubble Fellows Symposium; Space Telescope Science Institute, Baltimore, MD | March 2017 |
| 37. Feast of Facts Seminar; Australian National University | February 2017 |

36. SAMI Busyweek; ICRAR/University of Western Australia	February 2017
35. 229th AAS Meeting; Grapevine, TX	January 2017
34. Astronomy Seminar; Keck Observatory Headquarters	November 2016
33. GalFRESCA; California Institute of Technology	August 2016
32. SAMI Busyweek; North Ryde, NSW, Australia	June 2016
31. What Shapes Galaxies? STSci Symposium; Baltimore, MD	April 2016
30. Center for Adaptive Optics Fall Retreat; Lake Arrowhead, CA	October 2015
29. Astronomy Tea Talk; California Institute of Technology	October 2015
28. Astronomy Seminar; University of California, Santa Barbara	October 2015
27. Astronomy Seminar; University of California, Riverside	October 2015
26. Multiwavelength Dissection of Galaxies; Coogee Beach, NSW, Australia	May 2015
25. Australian Gemini, Magellan, Keck Science Meeting; North Ryde, NSW, Australia	May 2015
24. Feast of Facts Seminar; Australian National University	April 2015
23. Unveiling the AGN-Galaxy Evolution Connection; Puerto Varas, Chile	March 2015
22. SAMI Busyweek; Swinburne Institute of Technology	December 2014
21. Feast of Facts Seminar; Australian National University	October 2014
20. Keck Science Meeting; California Institute of Technology	October 2014
19. SAMI Busyday; Australian National University	September 2014
18. Powerful AGN and Their Host Galaxies Across Cosmic Time; Port Douglas, Queensland	June 2014
17. 223rd AAS Meeting; Washington, DC	January 2014
16. Feast of Facts Seminar; Australian National University	October 2013
15. Dissertation Talk, 221st AAS Meeting; Long Beach, CA	January 2013
14. Extragalactic Seminar, Institute for Astronomy; Honolulu, HI	December 2012
13. Binary Black Holes & Dual AGN; Tucson, AZ	December 2012
12. Center for Adaptive Optics Fall Retreat; Lake Arrowhead, CA	November 2012
11. Journal Club, University of California, Los Angeles	November 2012
10. Astrophysics Seminar, University of California, Santa Barbara	October 2012
9. AO Seminar, University of California, Berkeley	October 2012
8. Galaxy Formation Seminar, University of California, Berkeley	September 2012
7. Keck Science Meeting; San Diego, CA	September 2012
6. Astronomy Colloquium, University of California, Riverside	September 2012
5. Summer Friday Lunch Astrophysics Seminar Hour; University of California, Santa Cruz	September 2012
4. Interacting Galaxies & Binary Quasars: A Cosmic Rendezvous; Trieste, Italy	April 2012
3. Center for Adaptive Optics Fall Retreat; Lake Arrowhead, CA	November 2011
2. The Starburst-AGN Connection under the Multiwavelength Limelight ESAC Workshop; Madrid, Spain	September 2011
1. Friday Lunch Astrophysics Seminar Hour, University of California, Santa Cruz	April 2009

PUBLIC TALKS

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| 5. Caltech Astronomy Stargazing and Lecture Series
Pasadena, CA | January 2018 |
| 4. Australian National University's Black Hole Society
Canberra, ACT, Australia | August 2014 |
| 3. Science, Engineering, and Technology Association
Scotts Valley, CA | September 2011 |
| 2. Sons in Retirement
Capitola, CA | May 2010 |
| 1. High Technology High School
Lincroft, NJ | April 2010 |

FIRST-AUTHOR PEER-REVIEWED PUBLICATIONS

including papers first-authored by the undergraduate and graduate students I supervised or co-supervised

1. **Medling, A. M.**, Kewley, L. J., Calzetti, D., Privon, G. C., Larson, K., Rich, J. A., Armus, L., Allen, M. G., Díaz-Santos, T., and 6 others. 2019, “Tracing the Ionization Structure of the Shocked Filaments of NGC 6240”, *The Astrophysical Journal Supplement Series in review*
2. Orr, M. E., Hayward, C. C., **Medling, A. M.**, Gurvich, A. B., Hopkins, P. F., Murray, N., Pineda, J. L., Faucher-Giguère, C.-A., Kereš, and 1 other. 2020, “Swirls of FIRE: spatially resolved gas velocity dispersions and star formation rates in FIRE-2 disc environments”, *Monthly Notices of the Royal Astronomical Society*, 496, 1620
3. **Medling, A. M.**, Privon, G. C., Barcos-Muñoz, L., Treister, E., Cicone, C., Messias, H., Scoville, N., U, V., Armus, L., and 9 others. 2019, “How to Fuel an AGN: Mapping Circumnuclear Gas in NGC 6240 with ALMA”, *The Astrophysical Journal Letters*, 885, 21
4. **Medling, A. M.**, Cortese, L., Croom, S. M., Green, A. W., Groves, B., Hampton, E., Ho, I-T., Davies, L. J. M., Kewley, L. J., and 36 others. 2018, “The SAMI Galaxy Survey: Spatially Resolving the Main Sequence of Star Formation”, *Monthly Notices of the Royal Astronomical Society*, 475, 5194
5. Hampton, E. J., **Medling, A. M.**, Groves, B., Kewley, L., Dopita, M., Davies, R., Ho, I-T., Kaasinen, M., Leslie, S., and 18 others. 2017, “Using an artificial neural network to classify multicomponent emission lines with integral field spectroscopy from SAMI and S7”, *Monthly Notices of the Royal Astronomical Society*, 470, 3395
6. Ho, I-T., **Medling, A. M.**, Groves, B., Rich, J. A., Rupke, D. S. N., Hampton, E., Kewley, L. J., Bland-Hawthorn, J., Croom, S. M., and 4 others. 2016, “LZIFU: an emission-line fitting toolkit for integral field spectroscopy data”, *Astrophysics & Space Science*, 361, 280
7. Davies, R. L., **Medling, A. M.**, U, V., Max, C. E., Sanders, D. B., & Kewley, L. J. 2016, “Reconstructing merger timelines using star cluster age distributions: the case of MCG+08-11-002”, *MNRAS*, 458, 158
8. Ho, I-T., **Medling, A. M.**, Bland-Hawthorn, J., Groves, B., Kewley, L. J., Kobayashi, C., Dopita, M. A., Leslie, S. K., Sharp, R., and 17 others. 2016, “The SAMI Galaxy Survey: extraplanar gas, galactic winds and their association with star formation”, *MNRAS*, 457, 1257
9. **Medling, A. M.**, U, V., Max, C. E., Sanders, D. B., Armus, L., Holden, B., Mieda, E., Wright, S. A. & Larkin, J. E. 2015, “Following Black Hole Scaling Relations Through Gas-Rich Mergers”, *The Astrophysical Journal*, 803, 61
10. **Medling, A. M.** U, V., Rich, J. A., Kewley, L. J., Armus, L., Dopita, M. A., Max, C. E., Sanders, D. & Sutherland, R. 2015, “Shocked Gas in IRAS F17207-0014: ISM Collisions and Outflows”, *Monthly Notices of the Royal Astronomical Society*, 448, 2301
11. **Medling, A. M.**, U, V., Guedes, J., Max, C. E., Mayer, L., Armus, L., Holden, B., Roškar, R. & Sanders, D. 2014, “Stellar and Gaseous Nuclear Disks Observed in Nearby (U)LIRGs”, *The Astrophysical Journal*, 784, 70
12. **Medling, A. M.**, Ammons, S. M., Max, C. E., Davies, R. I., Engel, H. & Canalizo, G. 2011, “Mass of the Southern Black Hole in NGC 6240 from Laser Guide Star Adaptive Optics”, *The Astrophysical Journal*, 743, 32
13. **Rajala, A.**, Fox, D. B., Gal-Yam, A., Leonard, D. C., Soderberg, A. M., Kulkarni, S. R., Cenko, S. B., Moon, D.-S. & Harrison, F. A. 2005, “Photometric Typing Analyses of Three Young Supernovae Observed with the Robotic Palomar 60 Inch Telescope”, *Publications of the Astronomical Society of the Pacific*, 117, 132

OTHER PEER-REVIEWED PUBLICATIONS

with noted undergraduate and graduate student first authors I co-supervised

14. van de Sande, J., Croom, S. M., Bland-Hawthorn, J., Cortese, L., Scott, N., Lagos, C. D. P., D’Eugenio, F., Bryant, J. J., Brough, S., and 11 others, including **Medling, A. M.** 2021, “The SAMI Galaxy Survey: Mass and Environment as Independent Drivers of Galaxy Dynamics”, *Monthly Notices of the Royal Astronomical Society*, in press

15. Ricci, C., Privon, G. C., Pfeifle, R. W., Armus, L., Iwasawa, K., Torres-Albà, Satyapal, S., Bauer, F. E., Treister, E., and 19 others, including **Medling, A. M.** “A hard X-ray view of luminous and ultra-luminous infrared galaxies in GOALS - I. AGN obscuration along the merger sequence”, *Monthly Notices of the Royal Astronomical Society*, 506, 5935
16. Croom, S. M., Taranu, D. S., van de Sande, J., Lagos, C. D. P., Harborne, K. E., Bland-Hawthorn, J., Brough, S., Bryant, J. J., Cortese, L., and 10 others, including **Medling, A. M.** 2021, “The SAMI Galaxy Survey: the role of disc fading and progenitor bias in kinematic transitions”, *Monthly Notices of the Royal Astronomical Society*, 505, 2247
17. Croom, S. M., Owers, M. S., Scott, N., Poetrodjojo, H., Groves, B., van de Sande, J., Barone, T. M., Cortese, L., D’Eugenio, F., and 32 others, including **Medling, A. M.** 2021, “The SAMI Galaxy Survey: the third and final data release”, *Monthly Notices of the Royal Astronomical Society*, 505, 991
18. Fraser-McKelvie, A., Cortese, L., van de Sande, J., Bryant, J. J., Catinella, B., Colless, M., Croom, S. M., Groves, B., **Medling, A. M.**, and 8 others. 2021, “A SAMI and MaNGA view on the stellar kinematics of galaxies on the star-forming main sequence”, *Monthly Notices of the Royal Astronomical Society*, 503, 4992
19. Poetrodjojo, H., Groves, B. A., Kewley, L. J., Sweet, S. M., Sanchez, S. F., **Medling, A. M.**, Lopez-Sanchez, A., Brough, S., Cortese, L., and 9 others. 2021, “The SAMI Galaxy Survey: Reconciling Strong Emission Line Metallicity Diagnostics Using Metallicity Gradients”, *Monthly Notices of the Royal Astronomical Society*, 502, 3357
20. Deeley, S., Drinkwater, M. J., Sweet, S. M., Diaz, J., Bekki, K., Couch, W. J., Forbes, D. A., Bland-Hawthorn, J., Bryant, J. J., and 8 others, including **Medling, A. M.** 2020, “The SAMI Galaxy Survey: A Range in S0 Properties Indicating Multiple Formation Pathways”, *Monthly Notices of the Royal Astronomical Society*, 498, 2372
21. Kool, E. C., Reynolds, T. M., Mattila, S., Kankare, E., Perez-Torres, M. A., Efstathiou, A., Ryder, S., Romero-Canizales, C., Lu, W., and 20 others, including **Medling, A. M.** 2020, “AT 2017gbl: a dust-obscured TDE candidate in a luminous infrared galaxy”, *Monthly Notices of the Royal Astronomical Society*, 498, 2167
22. Treister, E., Messias, H., Privon, G. C., Nagar, N., **Medling, A. M.**, U, V., Bauer, F. E., Cicone, C., Barcos-Muñoz, L., and 13 others. 2020, “The Molecular Gas in the NGC 6240 Merging Galaxy System at the Highest Spatial Resolution”, *The Astrophysical Journal*, 890, 149
23. Welker, C., Bland-Hawthorn, J., van de Sande, J., Lagos, C., Elahi, P., Obreschkow, D., Bryant, J., Pichon, C., Cortese, L., and 10 others, including **Medling, A. M.** 2020, “The SAMI Galaxy Survey: First detection of a transition in spin orientation with respect to cosmic filaments in the stellar kinematics of galaxies”, *Monthly Notices of the Royal Astronomical Society*, 491, 2864
24. Guo, K., Cortese, L., Obreschkow, D., Catinella, B., van de Sande, J., Croom, S. M., Brough, S., Sweet, S., Bryant, J. J., and 4 others, including **Medling, A. M.** 2020, “The SAMI Galaxy Survey: the contribution of different kinematic classes to the stellar mass function of nearby galaxies”, *Monthly Notices of the Royal Astronomical Society*, 491, 773
25. Rawlings, A., Foster, C., van de Sande, J., Taranu, D. S., Croom, S. M., Bland-Hawthorn, J., Brough, S., Bryant, J. J., Colless, M., and 12 others, including **Medling, A. M.** 2020, “The SAMI Galaxy Survey: rules of behaviour for spin-ellipticity radial tracks in galaxies”, *Monthly Notices of the Royal Astronomical Society*, 491, 324
26. Larson, K. L., Díaz-Santos, T., Armus, L., Privon G. C., Linden, S. T., Evans, A. S., Howell, J., Charmandaris, V., U, V., and 9 others, including **Medling, A. M.** 2020, “Star-forming Clumps in Local Luminous Infrared Galaxies”, *The Astrophysical Journal*, 888, 92
27. Moffett, A. J., Phillipps, S., Robotham, A. S. G., Driver, S. P., Bremer, M. N., Cortese, L., Wong, O. I., Brough, S., Brown, M. J. I., and 17 others, including **Medling, A. M.** 2019, “Star-forming, rotating spheroidal galaxies in the GAMA and SAMI surveys”, *Monthly Notices of the Royal Astronomical Society*, 489, 2830
28. Ferreras, I., Scott, N., La Barbera, F., Croom, S., van de Sande, J., Hopkins, A., Colless, M., Barone, T. M., D’Eugenio, F., and 10 others, including **Medling, A. M.** 2019, “The SAMI Galaxy Survey: Stellar population radial gradients in early-type galaxies”, *Monthly Notices of the Royal Astronomical Society*, 489 608

29. D’Agostino, J. J., Kewley, L. J., Groves, B. A., **Medling, A. M.**, Di Teodoro, E., Dopita, M. A., Thomas, A. D., Sutherland, R. S., & Garcia-Burillo, S. 2019, “Separating line emission from star formation, shocks, and AGN ionization in NGC 1068”, *Monthly Notices of the Royal Astronomical Society*, 487, 4153
30. Barat, D., D’Eugenio, F., Colless, M., Brough, S., Catinella, B., Cortese, L., Croom, S. M., **Medling, A. M.**, Oh, S., and 11 others. 2019, “The SAMI Galaxy Survey: mass-kinematics scaling relations”, *Monthly Notices of the Royal Astronomical Society*, 487, 2924
31. Linden, S. T., Song, Y., Evans, A. S., Murphy, E. J., Armus, L., Barcos-Muñoz, L., Larson, K., Díaz-Santos, T., Privon, G. C., and 7 others, including **Medling, A. M.** 2019, “A Very Large Array Survey of Luminous Extranuclear Star-forming Regions in Luminous Infrared Galaxies in GOALS”, *The Astrophysical Journal*, 881, 70
32. D’Agostino, J. J., Kewley, L. J., Groves, B. A., **Medling, A. M.**, Dopita, M. A., and Thomas, A. D. 2019, “A new diagnostic to separate line emission from star formation, shocks, and AGNs simultaneously in IFU data”, *Monthly Notices of the Royal Astronomical Society*, 485, 38
33. Varidel, M. R., Croom, S. M., Lewis, G. F., Brewer, B. J., Di Teodoro, E. M., Bland-Hawthorn, J., Bryant, J. J., Federrath, C., Foster, C., and 14 others, including **Medling, A. M.** 2019, “The SAMI Galaxy Survey: Bayesian Inference for Gas Disk Kinematics using a Hierarchical Gaussian Mixture Model”, *Monthly Notices of the Royal Astronomical Society*, 485, 4024
34. Jeong, H., Kim, S., Owers, M. S., Joo, S.-J., Kim, H.-S., Lee, W., Lee, Y., van de Sande, J., Lee, J. and 14 others, including **Medling, A. M.** 2019, “The SAMI Galaxy Survey: Kinematic Alignments of Early-type Galaxies in A119 and A168”, *The Astrophysical Journal*, 875, 60
35. van de Sande, J., Lagos, C. D. P., Welker, C., Bland-Hawthorn, J., Schulze, F., Remus, R.-S., Bahé, Y., Brough, S., Bryant, J. J., and 13 others, including **Medling, A. M.** 2019, “The SAMI Galaxy Survey: comparing 3D spectroscopic observations with galaxies from cosmological hydrodynamical simulations”, *Monthly Notices of the Royal Astronomical Society*, 484, 869
36. Schaefer, A. L., Croom, S. M., Scott, N., Brough, S., Allen, J. T., Bekki, K., Bland-Hawthorn, J., Bloom, J. V., Bryant, J. J., and 19 others, including **Medling, A. M.** 2019, “The SAMI Galaxy Survey: observing the environmental quenching of star formation in GAMA groups”, *Monthly Notices of the Royal Astronomical Society*, 483, 2851
37. Owers, M. S., Hudson, M. J., Oman, K. A., Bland-Hawthorn, J., Brough, S., Bryant, J. J., Cortese, L., Couch, W. J., Croom, S. M., and 13 others, including **Medling, A. M.** 2019, “The SAMI Galaxy Survey: Quenching of Star Formation in Clusters I. Transition Galaxies”, *The Astrophysical Journal*, 873, 52
38. Bryant, J. J., Croom, S. M., van de Sande, J., Scott, N., Fogarty, L. M. R., Bland-Hawthorn, J., Bloom, J. V., Taylor, E. N., Brough, S., and 10 others, including **Medling, A. M.** 2019, “The SAMI Galaxy Survey: stellar and gas misalignments and the origin of gas in nearby galaxies”, *Monthly Notices of the Royal Astronomical Society*, 483, 458
39. U, V., **Medling, A. M.**, Inami, H., Armus, L., Díaz-Santos, T., Charmandaris, V., Howell, J., Stierwalt, S., Privon, G. C., and 15 others. 2019, “Keck OSIRIS AO LIRG Analysis (KOALA): Feedback in the Nuclei of Luminous Infrared Galaxies”, *The Astrophysical Journal*, 871, 166
40. Keel, W. C., Banfield, J. K., **Medling, A. M.**, Neff, S. G. 2018, “Optical Detection of Star Formation in a Cold Dust Cloud in the Counterjet Direction of Centaurus A”, *The Astronomical Journal*, 157, 66
41. Tiley, A. L., Bureau, M., Cortese, L., Harrison, C. M., Johnson, H. L., Stott, J. P., Swinbank, A. M., Smail, I., Sobral, D., and 21 others, including **Medling, A. M.** 2019, “KROSS-SAMI: a direct IFS comparison of the Tully-Fisher relation across 8 Gyr since $z \approx 1$ ”, *Monthly Notices of the Royal Astronomical Society*, 482, 2166
42. Scott, N., van de Sande, J., Croom, S. M., Groves, B., Owers, M. S., Poetrodjojo, H., D’Eugenio, F., **Medling, A. M.**, Barat, D., and 11 others. 2018, “The SAMI Galaxy Survey: Data Release Two with absorption-line physics value-added products”, *Monthly Notices of the Royal Astronomical Society*, 481, 2299
43. Torres-Albà, N., Iwasawa, K., Díaz-Santos, T., Charmandaris, V., Ricci, C., Chu, J. K., Sanders, D. B., Armus, L., Barcos-Muñoz, L., and 8 others, including **Medling, A. M.** 2018, “C-GOALS. II. Chandra observations of the lower luminosity sample of nearby luminous infrared galaxies in GOALS”, *Astronomy & Astrophysics*, 620, 140

44. Foster, C., van de Sande, J., Cortese, L., Croom, S. M., Bland-Hawthorn, J., Brough, S., Bryant, J. J., Goodwin, M., Lawrence, J. S., and 5 others including **Medling, A. M.** 2018 “The SAMI Galaxy Survey: embedded discs and radial trends in outer dynamical support across the Hubble sequence”, *Monthly Notices of the Royal Astronomical Society*, 480, 3105
45. Poetrodjojo, H., Groves, B., Kewley, L. J., **Medling, A. M.**, Sweet, S. M., van de Sande, J., Sanchez, S. F., Bland-Hawthorn, J., Brough, S., and 10 others. 2018, “The SAMI Galaxy Survey: Spatially resolved metallicity and ionization mapping”, *Monthly Notices of the Royal Astronomical Society*, 479, 5235
46. Ardila, F., Alatalo, K., Lanz, L., Appleton, P. N., Beaton, R. L., Bitsakis, T., Cales, S. L., Falcón-Barroso, J., Kewley, L. J., and 5 others including **Medling, A. M.** 2018, “Shocked P0ststarburst Galaxy Survey. III. The Ultraviolet Properties of SPOGs”, *The Astrophysical Journal*, 863, 28
47. van de Sande, J., Scott, N., Bland-Hawthorn, J., Brough, S., Bryant, J. J., Colless, M., Cortese, L., Croom, S. M., d’Eugenio, F., and 9 others including **Medling, A. M.** 2018, “A relation between the characteristic stellar ages of galaxies and their intrinsic shapes”, 2018, *Nature Astronomy*, 2, 483
48. Bloom, J. V., Croom, S. M., Bryant, J. J., Schaefer, A. L., Bland-Hawthorn, J., Brough, S., Callingham, J., Cortese, L., Federrath, C., and 15 others including **Medling, A. M.** 2018, “The SAMI Galaxy Survey: gas content and interaction as the drivers of kinematic asymmetry”, *Monthly Notices of the Royal Astronomical Society*, 476, 2339
49. Iwasawa, K., U, V., Mazzarella, J. M., **Medling, A. M.**, Sanders, D. B., & Evans, A. S. 2018, “Testing a double AGN hypothesis for Mrk 273”, *Astronomy & Astrophysics*, 611, 71
50. Green, A. W., Croom, S. M., Scott, N., Cortese, L., **Medling, A. M.**, D’Eugenio, F., Bryant, J. J., Bland-Hawthorn, J., Allen, J. T., and 42 others. 2018, “The SAMI Galaxy Survey: Data Release One with Emission-line Physics Value-Added Products”, *Monthly Notices of the Royal Astronomical Society*, 475, 716
51. Johnson, H. L., Harrison, C. M., Swinbank, A. M., Tiley, A. L., Stott, J. P., Bower, R. G., Smail, I., Bunker, A. J., Sobral, D., and 21 others including **Medling, A. M.** 2018, “The KMOS Redshift One Spectroscopy Survey (KROSS): the origin of disk turbulence in $z \sim 0.9$ star-forming galaxies”, *Monthly Notices of the Royal Astronomical Society*, 474, 5076
52. Barone, T. M., D’Eugenio, F., Colless, M., Scott, N., van de Sande, J., Bland-Hawthorn, J., Brough, S., Bryant, J. J., Cortese, L., and 9 others including **Medling, A. M.** 2018, “The SAMI Galaxy Survey: gravitational potential and surface density drive stellar populations – I. early-type galaxies”, *The Astrophysical Journal*, 856, 64
53. Tescari, E., Cortese, L., Power, C., Wyithe, J. S. B., Ho, I-T., Crain, R. A., Bland-Hawthorn, J., Croom, S. M., Kewley, L. J., and 17 others including **Medling, A. M.** 2018, “The SAMI Galaxy Survey: understanding observations of large-scale outflows at low redshift with EAGLE simulations”, *Monthly Notices of the Royal Astronomical Society*, 473, 380
54. Scott, N., Brough, S., Croom, S. M., Davies, R. L., van de Sande, J., Allen, J. T., Bland-Hawthorn, J., Bryant, J. J., Cortese, L., and 14 others including **Medling, A. M.** 2017, “The SAMI Galaxy Survey: global stellar populations on the size-mass plane”, *Monthly Notices of the Royal Astronomical Society*, 472, 2833
55. Bloom, J. V., Croom, S. M., Bryant, J. J., Callingham, J. R., Schaefer, A. L., Cortese, L., Hopkins, A. M., D’Eugenio, F., Scott, N., and 16 others including **Medling, A. M.** 2017, “The SAMI Galaxy Survey: the low-redshift stellar mass Tully Fisher relation”, *Monthly Notices of the Royal Astronomical Society*, 472, 1809
56. van de Sande, J., Bland-Hawthorn, J., Brough, S., Croom, S. M., Cortese, L., Foster, C., Scott, N., Bryant, J. J., d’Eugenio, F., and 9 others including **Medling, A. M.** 2017, “The SAMI Galaxy Survey: revising the fraction of slow rotators in IFS galaxy surveys”, *Monthly Notices of the Royal Astronomical Society*, 472, 1272
57. Foster, C., van de Sande, J., D’Eugenio, F., Cortese, L., McDermid, R. M., Bland-Hawthorn, J., Brough, S., Bryant, J., Croom, S. M., and 11 others including **Medling, A. M.** 2017, “The SAMI Galaxy Survey: the intrinsic shape of kinematically selected galaxies”, *Monthly Notices of the Royal Astronomical Society*, 472, 966
58. Taranu, D. S., Obreschkow, D., Dubinski, J. J., Fogarty, L. M. R., van de Sande, J., Catinella, B., Cortese, L., Moffett, A., Robotham, A. S. G., and 20 others including **Medling, A. M.** 2017,

- “Self-Consistent Bulge/Disk/Halo Galaxy Dynamical Modeling Using Integral Field Kinematics”, *The Astrophysical Journal*, 850, 70
59. Leslie, S. K., Bryant, J. J., Ho, I-T., Sadler, E. M., **Medling, A. M.**, Groves, B., Kewley, L. J., Bland-Hawthorn, J., Croom, S. M., and 14 others. 2017, “The SAMI Galaxy Survey: disc-halo interactions in radio-selected star-forming galaxies”, *Monthly Notices of the Royal Astronomical Society*, 471, 2438
 60. Davies, R. L., Groves, B., Kewley, L. J., **Medling, A. M.**, Shastri, P., Maithil, J., Kharb, P., Banfield, J., Longbottom, F., and 8 others. 2017, “Dissecting galaxies: separating star formation, shock excitation and AGN activity in the central region of NGC 613”, *Monthly Notices of the Royal Astronomical Society*, 470, 4974
 61. Zhou, L., Federrath, C., Yuan, T., Bian, F., **Medling, A. M.**, Shi, Y., Bland-Hawthorn, J., Bryant, J. J., Brough, S., and 10 others. 2017, “The SAMI Galaxy Survey: energy sources of the turbulent velocity dispersion in spatially resolved local star-forming galaxies”, *Monthly Notices of the Royal Astronomical Society*, 470, 4573
 62. Bassett, R., Bekki, K., Cortese, L., Couch, W. J., Sansom, A. E., van de Sande, J., Bryant, J. J., Foster, C., Croom, S. M., and 13 others including **Medling, A. M.** 2017, “The SAMI Galaxy Survey: kinematics of dusty early-type galaxies”, *Monthly Notices of the Royal Astronomical Society*, 470, 1991
 63. Federrath, C., Salim, D. M., **Medling, A. M.**, Davies, R. L., Yuan, T., Bian, F., Groves, B. A., Ho, I-T., Sharp, R., and 10 others. 2017, “The SAMI Galaxy Survey: a new method to estimate molecular gas surface densities from star formation rates”, *Monthly Notices of the Royal Astronomical Society*, 468, 3965
 64. Brough, S., van de Sande, J., Owers, M. S., d’Eugenio, F., Sharp, R., Cortese, L., Scott, N., Croom, S. M., Bassett, R., and 17 others including **Medling, A. M.** 2017, “The SAMI Galaxy Survey: Mass as the Driver of the Kinematic Morphology-Density Relation in Clusters”, *The Astrophysical Journal*, 844, 59
 65. Alatalo, K., Bitsakis, T., Lanz, L., Lacy, M., Brown, M. J. I., French, K. D., Ceisla, L., Appleton, P. N., Beaton, R. L., and 11 others including **Medling, A. M.** 2017, “Welcome to the Twilight Zone: The Mid-infrared Properties of Post-starburst Galaxies”, *The Astrophysical Journal*, 843, 9
 66. Owers, M. S., Allen, J. T., Baldry, I., Bryant, J. J., Cecil, G. N., Cortese, L., Croom, S. M., Driver, S. P., Fogarty, L. M. R. and 34 others including **Medling, A. M.** 2017, “The SAMI Galaxy Survey: the cluster redshift survey, target selection and cluster properties”, *Monthly Notices of the Royal Astronomical Society*, 468, 1824
 67. Bloom, J. V., Fogarty, L. M. R., Croom, S. M., Schaefer, A., Bryant, J. J., Cortese, L., Richards, S., Bland-Hawthorn, J., Ho, I-T., and 17 others including **Medling, A. M.** 2017, “The SAMI Galaxy Survey: asymmetry in gas kinematics and its links to stellar mass and star formation”, *Monthly Notices of the Royal Astronomical Society*, 465, 123
 68. Schaefer, A. L., Croom, S. M., Allen, J. T., Brough, S., **Medling, A. M.**, Ho, I-T., Scott, N., Richards, S. N., Pracy, M. B. and 26 others. 2017, “The SAMI Galaxy Survey: Spatially resolving the environmental quenching of star formation in GAMA galaxies”, *Monthly Notices of the Royal Astronomical Society*, 464, 121
 69. van de Sande, J., Bland-Hawthorn, J., Fogarty, L. M. R., Cortese, L., d’Eugenio, F., Croom, S. M., Scott, N., Allen, J. T., Brough, S. and 30 others including **Medling, A. M.** 2017, “The SAMI Galaxy Survey: Revisiting Galaxy Classification through High-order Stellar Kinematics”, *The Astrophysical Journal*, 835, 104
 70. Childress, M. J., Tucker, B. E., Yuan, F., Scalzo, R., Ruiter, A., Seitenzahl, I., Zhang, B., Schmidt, B., Anguiano, B., and 19 others including **Medling, A. M.** 2016, “The ANU WiFeS SuperNova Programme (AWSNAP)”, *Publications of the Astronomical Society of Australia*, 33, 55
 71. Cortese, L., Fogarty, L. M. R., Bekki, K., van de Sande, J., Couch, W., Catinella, B., Colless, M., Obreschkow, D., Taranu, D., and 28 others including **Medling, A. M.** 2016, “The SAMI Galaxy Survey: the link between angular momentum and optical morphology”, *Monthly Notices of the Royal Astronomical Society*, 463, 170
 72. Oh, S., Yi, S. K., Cortese, L., van de Sande, J., Mahajan, S., Jeong, H., Sheen, Y.-K., Allen, J. T., Bekki, K., and 19 others including **Medling, A. M.** 2017, “The SAMI galaxy survey: Galaxy Interactions and Kinematic Anomalies in Abell 119”, *The Astrophysical Journal*, 832, 69

73. Alatalo, K., Lisenfeld, U., Lanz, L., Appleton, P. N., Ardila, F., Cales, S. L., Kewley, L. J., Lacy, M. **Medling, A. M.**, and 3 others. 2016, “Shocked POststarburst Galaxy Survey. II. The Molecular Gas Content and Properties of a Subset of SPOGs”, *The Astrophysical Journal*, 827, 106
74. Alatalo, K., Cales, S. L., Rich, J. A., Appleton, P. N., Kewley, L. J., Lacy, M., Lanz, L., **Medling, A. M.**, & Nyland, K. 2016, “Shocked POststarburst Galaxy Survey I: Candidate Post-Starburst Galaxies with Emission Line Ratios Consistent with Shocks”, *The Astrophysical Journal Supplement*, 224, 38
75. Graham, A. W., Durré, M., Savorgnan, G. A. D., **Medling, A. M.**, Batcheldor, D., Scott, N., Watson, B., & Marconi, A. 2016, “A Normal Supermassive Black Hole in NGC1277”, *ApJ*, 819, 43
76. Richards, S. N., Bryant, J., Croom, S., Hopkins, A., Schaefer, A., Bland-Hawthorn, J., Allen, J., Brough, S., Cecil, G. and 15 others including **Medling, A. M.** 2015, “The SAMI Galaxy Survey: Can we trust aperture corrections to predict star formation?”, *MNRAS*, 455, 2826
77. McGurk, R. C., Max, C. E., **Medling, A. M.**, Shields, G. A., & Comerford, J. M. 2015, “Spatially Resolved Imaging and Spectroscopy of Candidate Dual Active Galactic Nuclei”, *ApJ*, 811, 14
78. Allen, J. T., Schaefer, A. L., Scott, N., Fogarty, L. M. R., Ho, I.-T., **Medling, A. M.**, Leslie, S. K., Bland-Hawthorn, J., Bryant, J. J., and 8 others. 2015, “The SAMI Galaxy Survey: Unveiling the nature of kinematically offset AGN”, *Monthly Notices of the Royal Astronomical Society*, 451, 2780
79. Bryant, J. J., Owers, M. S., Robotham, A. S. G., Croom, S. M., Driver, S. P., Drinkwater, M. J., Lorente, N. P. F., Cortese, L., Scott, N., and 49 others including **Medling, A. M.** 2015, “The SAMI Galaxy Survey: instrument specification and target selection”, *Monthly Notices of the Royal Astronomical Society*, 447, 2857
80. McElroy, R., Croom, S. M., Pracy, M., Sharp, R., Ho, I-T. & **Medling, A. M.** 2015, “IFU observations of luminous type II AGN - I. Evidence for ubiquitous winds”, *Monthly Notices of the Royal Astronomical Society*, 446, 2186
81. Allen, J. T., Croom, S. M., Konstantopoulos, I. S., Bryant, J. J., Sharp, R., Cecil, G. N., Fogarty, L. M. R., Foster, C., Green, A. W., and 39 others including **Medling, A. M.** 2015, “The SAMI Galaxy Survey: Early Data Release”, *Monthly Notices of the Royal Astronomical Society*, 446, 1567
82. Sharp, R., Allen, J. T., Fogarty, L. M. R., Croom, S. M., Cortese, L., Green, A. W., Nielsen, J., Richards, S. N., Scott, N., and 40 others including **Medling, A. M.** 2015, “The SAMI Galaxy Survey: cubism and covariance, putting round pegs into square holes”, *Monthly Notices of the Royal Astronomical Society*, 446, 1551
83. Ho, I-T., Kewley, L. J., Dopita, M. A., **Medling, A. M.**, Allen, J. T., Bland-Hawthorn, J., Bloom, J. V., Bryant, J. J., Croom, S. M., and 8 others. 2014, “The SAMI Galaxy Survey: shocks and outflows in a normal star-forming galaxy”, *Monthly Notices of the Royal Astronomical Society*, 444, 3894
84. Cortese, L., Fogarty, L. M. R., Ho, I-T., Bekki, K., Bland-Hawthorn, J., Colless, M., Couch, W., Croom, S. M., Glazebrook, K., and 21 others including **Medling, A. M.** 2014, “The SAMI Galaxy Survey: Toward a Unified Dynamical Scaling Relation for Galaxies of All Types”, *The Astrophysical Journal*, 795, 37
85. U, V., **Medling, A. M.**, Sanders, D., Max, C., Armus, L., Iwasawa, K., Evans, A., Kewley, L. & Fazio, G. 2013, “The Inner Kiloparsec of Mrk 273 from Laser Guide Star Adaptive Optics”, *The Astrophysical Journal*, 775, 115
86. Engel, H., Davies, R. I., Genzel, R., Tacconi, L. J., Hicks, E. K. S., Sturm, E., Naab, T., Johansson, P. H., Karl, S. J., and 3 others including **Medling, A.** 2010, “NGC 6240: merger-induced star formation and gas dynamics”, *Astronomy & Astrophysics*, 524, A56
87. Marino, A. F., Villanova, S., Piotto, G., Milone, A. P., Momany, Y., Bedin, L. R. & **Medling, A. M.** 2008, “Spectroscopic and photometric evidence of two stellar populations in the Galactic globular cluster NGC 6121 (M4)”, *Astronomy & Astrophysics*, 490, 625

OTHER PUBLICATIONS: ASTRONOMY & EDUCATION

7. Appleton, P., Armus, L., Boulanger, F., Bradford, C. M., Braine, J., Bromm, V., Capak, P., Cluver, M., Cooray, A., and 16 others, including **Medling, A. M.**, “Warm H₂ as a probe of massive accretion and feedback through shocks and turbulence across cosmic time”, 2019, *Astro2020 Science White Paper*, arXiv: 1903.06653

6. Hampton, E. J., Groves, B., Medling, A. M., Davies, R., Dopita, M., Ho, I-T., Kaasinen, M., Kewley, L., Leslie, S., and 8 others. 2018, "Using an Artificial Neural Network to Classify Multi-component Emission Line Fits", Astronomical Data Analysis Software and Systems XXV, *Astronomical Society of the Pacific Conference Series*, 512, 221
5. U, V., **Medling, A.**, Sanders, D. & Max, C. 2013, "Keck IFU Observations of Mrk 273", Galaxy Mergers in an Evolving Universe, *Astronomy Society of the Pacific Conference Series*, 477, 69
4. McConnell, N. J., **Medling, A. M.**, Strubbe, L. E., Moth, P., Montgomery, R. M., Raschke, L. M., Hunter, L. & Goza, B. K. 2010, "A College-Level Inquiry-Based Laboratory Activity on Transiting Planets", Learning From Inquiry in Practice, *Astronomy Society of the Pacific Conference Series*, 436 pp. 97-107
3. **Rajala, A.**, Fox, D. B. & Gal-Yam, A. 2004a, *IAU Circular*, 8386, 4
2. **Rajala, A.**, Fox, D. B. & Gal-Yam, A. 2004b, *Astronomer's Telegram*, 320
1. **Rajala, A.**, Fox, D. B. & Gal-Yam, A. 2004c, *IAU Circular*, 8387