

South Africa Research Chair
in Astrophysics and Space Science

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Beginning with 20 years of experience as a NASA and JPL mission scientist at the California Institute of Technology and the Jet Propulsion Laboratory, and seven-plus years in my current position as the South Africa Research Chair in Astrophysics and Space Science at the University of Cape Town, I have played key roles in major international endeavours (ground and space-borne astronomical missions), lead or co-lead a number of highly-cited projects and publications, been the recipient of major external grants and awards, supervised over 20+ postgraduate students toward successful MSc and PhD projects, and directed a research group and associated laboratory that is dedicated to innovative techniques for large format and multi-dimensional visualisation platforms.

Education

May 1985: Pomona College B.A. (Physics, with honours)

February 1992: University of Massachusetts Ph.D. (Astrophysics)

1992 - 1994 Caltech, Postdoctoral Fellow: NRC Research Associate

Honours/Academic Achievements:

Westinghouse Science Medal, Coeur d'Alene High School (Idaho), 1981

Honours at Entrance, Pomona College, 1981

Brackett Astronomy Prize, Pomona College, 1985

Employee of the first Quarter- U.S. Navy Systems Support (with Computer Sciences Corporation), 1994

NASA Group Achievement Award for the 2MASS Team, 2005

The Maria and Eric Muhlmann Award (2006) for Roc Cutri and the 2MASS Team

NASA Group Achievement Award for the IRAS Instrument Team, 2009

NASA Group Achievement Award for the WISE Science Team, 2011

Elected as a Fellow of the Royal Society of South Africa, 2015

Professional Development:

2012 – present: Professor: SARChI in Astrophysics and Space Science: University of Cape Town.

2004 – 2008: Spitzer Legacy Archive Scientist, at the Spitzer Science Center, Pasadena, CA.

2002 – 2004: Project Scientist for the Infrared Science Archive, California Institute of Technology, Pasadena, CA.

1995 – 2012: Staff Scientist, Member of the Professional Staff, Infrared Processing and Analysis Center, California Institute of Technology, Pasadena, CA.

1998 – 2007: Adjunct Professor, Pomona College Department of Physics, Claremont, CA.

1994 – 1995: Systems Analyst, JPL Contracting Consultant for the Computer Sciences Corporation, Pasadena, CA.

1992 – 1994: NRC Postdoctoral Research Associate, Jet Propulsion Laboratory, Pasadena, CA.

1985 – 1992: Research Assistant, Department of Physics & Astronomy, University of Massachusetts, Amherst.

1985 (summer): Systems Engineer, Logicon Inc. (Northrup Aerospace Corp), San Pedro, CA.

1983 – 1985: Laboratory Assistant, Pomona College Department of Physics, Claremont, CA.

Observing/Field Experience:

Optical/IR Telescopes: NASA/Table Mountain 24" and Pomona College 1-m; University of Toronto 60 cm and 1 m at Cerro Las Campanas, Chile; KPNO 0.9 m, 1.3 m, and 4 m; Palomar 60" and 200". Siding Spring Observatory: UK Schmidt 1.2 m; SAAO 1.9 m; Anglo-Australian Observatory Telescope (AAT): 3.9-m; South Africa Large Telescope (SALT): 10-m

Infrared Telescopes: University of Wyoming Infrared Observatory (WIRO) 2.3 m; NASA Infrared Telescope Facility (IRTF) 3 m.

Radio Telescopes: Five College Radio Observatory (FCRAO): 13.7 m; Australian National Telescope Facility (ATNF), Parkes (The Dish) 64 m; ATNF-Mopra 22 m; ATNF-Australia Telescope Compact Array (ATCA); Westerbork Synthesis Radio Telescope (WSRT); KAT-7 Array (S. Africa)

Space Telescopes: Infrared Astronomical Satellite (IRAS); Infrared Space Observatory (ISO); *Hubble* Space Telescope (HST); *Spitzer* Space Telescope; Herschel Space Observatory (HSO); *Chandra* X-ray Observatory (CXO); Wide-field Infrared Survey Explorer (WISE)

Management Experience:

2002 – 2004: Project Scientist for the Infrared Science Archive, California Institute of Technology, Pasadena, CA. Among the duties of the project scientist was to coordinate and direct the software and database development staff to create scientific exploration tools; a direct output from this work is the database service called *Data Discovery Service – RADAR*: <http://irsa.ipac.caltech.edu/applications/Radar/>.

2012 – present: Professor: South African Research Chair in Astrophysics and Space Science: University of Cape Town. The research chair leads a group of students, post-doctoral fellows and administrative experts, comprising of about 12 people. The primary goal of the chair is to lead South African astronomy and data-intensive research into the SKA era of Big Data Science.

2017 – present: In 2017, we established a new Visualization Laboratory, of which I am co-director (along with Prof. Russ Taylor), that includes two software developers, one postdoc and PhD students (2).

Invited Talks and Presentations:

Lorentz Center, Leiden (Neth) (Jan 27, 2020) "*The Cosmic Web in the Local Universe*"

Sydney University, Center for Translational Science, colloquium (Dec 5, 2019), *The Case for Visualization and the creation of the IDIA Visualisation Lab*

Queens University (Can) colloquium (Oct 23, 2019), *WISE: The Largest Galaxies in the Sky*"

Western Sydney University (Aus) , colloquium (Aug 6, 2019), *Back to the Future: Comprehending Complex Data with Visualisation*

INAF-OAC Sardinia (It), colloquium (June 13, 2019), *The Quest to Measure the Largest Galaxies in the Sky: "Tilting at Big Windmills"*

International Planetarium Society – Africa, workshop in Cape Town (March 27, 2019), *IZiko Planetarium Research Consortium*

PHISCC Data Visualization workshop in Perth, Aus (Feb 2019), *Virtual Reality A New Perspective*

Astronomy Colloquium, Mt. Stromlo Observatory, Australia National University (Oct 29, 2018), *Astrophysics with Advanced Visualization using Virtual Reality & Full Domes*

Astronomy Colloquium, Center for Astrophysics and Supercomputing, Swinburne University (Oct 25, 2018), *The Future is Here, Astrophysics with Virtual Reality*

Seminar, Groningen University (RUG) & ASTRON, The HI Story of the Nearby Universe (Sept 12, 2018), *Neutral Hydrogen and the Infrared Connection*

Invited presentation to the UCT Space & Astronomy Society, Iziko Planetarium (Aug 13, 2018), *Science with the Fully-Immersive Digital Dome*

Workshop at the International Planetarium Society, Toulouse, France (July 4, 2018), *Data to Dome Initiative*, presented by T. Jarrett, M. Subbarao, J Vreeling.

British Council FameLab, Sports Science Institute, Cape Town, featured speaker (Aug 29, 2017), *Visualizing Big Data Science*

Astrophysics Seminar, Jet Propulsion Laboratory (Aug 15, 2016), *The SKA: Radio Astrophysics and the Dawn of the Universe*

MoCA Seminar, Monash University (April 18, 2016), *The WISE Cosmic Web of Galaxies*

GAMA Workshop, MPIK, Heidelberg, Germany (Sept 10, 2015), *The WISE Mid-IR Extragalactic Sky: Toward a 3-D Roadmap*

Life Cycle of Gas in Galaxies Conference, ASTRON, Netherlands (Sept 4, 2015), *WISE and Star Formation in Massive Disk Galaxies*

Astronomy Seminar, Macquarie University (July 17, 2015), *Using GAMA to understand WISE and using WISE to understand GAMA*

Digital Planetarium Upgrade Workshop, Iziko Museum (July 4, 2015), *Planetaria Reconnaissance*

Astronomy Colloquium, Kapteyn Institute, Groningen University (may 18, 2015), *The WISE Mid-IR Extragalactic Sky: Toward a 3-D Roadmap*

South Africa Astronomical Observatory, NASSP Summer School (Jan 17, 2015), *Infrared Astrophysics and Starburst Galaxies*

South African Astronomical Observatory, Open Night (June 14, 2014), *Dust in the Wind: the life and times of Starburst Galaxies in the Universe*

ASTRON/Groningen, 7th SKA Pathfinders HI Survey Coordination Committee (PHISCC) (March 19, 2014), *Infrared-HI Study of M31 and M33*

Stellenbosch, S. Africa, "Transformational Science with the SKA" (February 20, 2014), *Starburst Galaxies: Signatures and significance of extreme transformation*

SKA-SA Office, Cape Town, SKA/SARChI Chairs Meeting (Oct 10, 2013), *MeerKAT Early Science: User Model*

Australia Astronomical Observatory (AAO), TAIPAN Team Meeting (Aug 06, 2013), *Other cosmology requirements: Large, Uniform Redshift Surveys*

iThemba Labs, Faure, Western Cape, NRF Programme Astronomy Town Meeting (Aug 1 - 2, 2013), *Spectro-imaging Follow-ups of MeerKAT Surveys*

Hamilton Island, Queensland, Australia; Southern Cross Astrophysics Conference Series VI. (June 24, 2013), *Fueling the Star-Making Machine: Exploring past-to-present star formation in Local Volume galaxies*

University of Sydney, 6th SKA Pathfinders HI Survey Coordination Committee (PHISCC) (June 19, 2013), *Star formation history in LVHIS Galaxies*

University of Kwazulu Natal, Cosmology Colloquium (April 11, 2013), *WISEap: Value-Added Extra-galactic Science and more*

University of Cape Town, Summer School Public Lecture (Feb 1, 2013), *The Cosmic Distance Ladder*

University of Cape Town, Quarterly Postdoctoral Gathering (Jan 25, 2013), *The Full Life Cycle of Big Surveys*

South Africa Astronomical Observatory, NASSP Summer School (Jan 16, 2013), *The Underlying Structure of the Universe*

Macquarie Univ., Sydney Australia, The next generation of hemispheric redshift surveys and the prospects for TAIPAN (Dec 10, 2012): *Constructing a Mid-Infrared All Sky Galaxy Catalog in Support of Taipan*

Univ. of Cape town, S. Africa, PostGraduate Science Symposium (Sept 7, 2012): *SKA in South Africa* (plenary talk)

Univ. of Pretoria, S. Africa, SAIP (July 2012): *Toward the Great Quest to Decipher Galaxies: The WISE High-Resolution Galaxy Image Atlas*

Univ. of Pretoria, S. Africa, NRF Town Hall Meeting (July 2012): *SA Involvement with International Telescopes*

South Africa Astronomical Observatory, S. Africa, NASSP Lecture (July 2012): *Cosmic Web of Galaxies*

Cape Town, S. Africa, Astrophysics, Cosmology and Galaxies Center (ACGC), Workshop (June 19, 2012): *Large Scale Structures, Bulk Flows and Cosmology.*

Hunter Valley, Australia, the 5th Southern Cross Conference of the CASS/AAO (June 4, 2012): *The WISE Sky.*

ATNF/CASS, Sydney Australia, SPARCS2 Workshop (May 30, 2012): *A WISE Companion to the Radio Astronomer*

Cape Town, S. Africa, the 5th Pathfinder HI Survey Coordination Committee Workshop (Feb 1, 2012): *Using WISE to Characterize HI Galaxies*

Sydney/Epping, Australia, Australian National Telescope Facility (ATNF) (Nov 23, 2011): *The Age of WISE has Dawned: Are you Ready?*

Jet Propulsion Laboratory, Pasadena (Oct 27, 2011): *WISE Galaxies.*

California State University, Los Angeles (Oct 2011): *A Cool View of Galaxies.*

American Astronomical Society Press Conference, Boston (May 2011): *A Galaxy Menagerie from WISE.*

International Centre for Radio Astronomy Research (Feb 2011), Perth, Australia, HI Pathfinder Workshop: *WISE Synergy with Radio Surveys.*

San Marino High School (May 2010), Science Lunch Seminar: *Peering into the Cool Universe.*

South African Astronomical Observatory (Aug 2008), Physics Colloquium: *To Pierce the Milky Way: Toward a Complete Picture of the Local Universe.*

University of Cape Town (Aug 2008), NASSP Colloquium: *The Hidden Realm of Deeply Embedded Supernovae Remnants*.

University of Nevada, January (2008), Physics Colloquium: *Infrared Supernova Remnants*.

Pasadena, December (2007), Conference on The Evolving ISM in the Milky Way and Nearby Galaxies: *The Impact and Fate of the ISM in Compact Groups of Galaxies*.

University of Nevada, November (2006), Physics Colloquium: *The Great Attractor*.

Epping, Australia, December (2005), Anglo-Australian Observatory: *The Tadpole Galaxy*.

Sydney, Australia, April (2005), 6dFGS Galaxy Redshift Survey Workshop, Detection completeness with Hubble Type S. Africa, June (2004; in absentia): *Penetrating Bars through Masks of Cosmic Dust*.

Caltech, Jan (2004), IPAC Astronomy Lunch Seminars: *Unveiling the Bar of M83: Through the Looking Glass*.

Sydney, Australia, Nov (2003) Structure and Dynamics in the Local Universe conference: *The Cosmic Web: Large Scale Structure in the Local Universe*.

Sonoma State University, March 18th (2002): *The Universe Revealed: The Two Micron All Sky Survey* (plenary)

Pasadena, June (2001), 198th Meeting of the AAS: *Extragalactic Science with 2MASS*.

IPAC, Mar (2001), 2nd Friday Seminar Series: *The Search For Life in the Universe*.

IPAC, June 9 (2000), 2nd Friday Seminar Series: *Galaxies: Titans of the Universe*.

Pomona College (2000), Cosmology 121: *Galaxies at the Horizon: Observational Cosmology*.

Caltech (2000), Greater IPAC Science Symposium: *Large Scale Structure in the Zone of Avoidance*.

Pomona College (1998), Physics Colloquium: *Mapping the Heavens, the Next Generation of Celestial Surveys*.

DENIS - 2MASS Joint Workshop 1997, Paris: *Galaxy Detection in 2MASS*.

DENIS Euroconference, June 1997, Paris: *Low Surface Brightness Galaxies in the 2MASS Database*.

Proposal Grants

Infrared Space Observatory (1996-1998): Guest Observer – *Infrared Study of the Taffy Galaxy System*

Spitzer: GO-3 (2006-2007) – *Multi-wavelength Study of HIZOA J0836-43 Massive Galaxy*

Spitzer: GO-4 (2007-2008) – *Infrared Survey of the Circinus Galaxy Region*

Spitzer: GO-5 (2008-10) – *Supernove Remnant Evolution in NGC 6946*

Herschel: OT1 (2011) – *WISE-Herschel Survey of Hyper-luminous Galaxies*

HST: HST-GO-11708.7 (2011-2012) – *Multi-wavelength investigation searching for IMF variations among massive star-forming regions in nearby galaxies*

Herschel: OT2 (2012) – *Far-IR Properties of the Massive LIRG HIZOA J0836-43*

- SARCHI Research Chair, 2012-2016, NRF-funded (R3M/yr)
- SARCHI Research Chair, 2016-2018, NRF-funded (R4.5M/yr)
- SARCHI Research Chair, 2019-present, NRF-funded (R5.3M/yr)
- NRF Incentive Funding for Rated Researcher (R80K/year)
- Dept of Science and Technology, funding for upgrade to the Iziko Planetarium to a Research Facility (R15M), with additional funding from the Research Consortium (R8M), and other sources, totaling R30M.

Key Science Teams

2MASS Tully-Fisher Survey (2MTF)
 2MASS Redshift Survey (2MRS)
 Cosmic Flows (Spitzer/GALEX/WISE)
 Evolutionary Map of the Universe (EMU – ASKAP)
 6dF Galaxy Survey (6dFGS)
 Spitzer Survey of Stellar Structure in Galaxies (S4G)
 SINGS SPITZER Nearby Galaxy Survey (SINGS)
 SPITZER Wide-area Infrared Extragalactic Survey (SWIRE)
 Wide-field Infrared Survey Explorer (WISE)
 WALLABY - the ASKAP HI All-Sky Survey
 Transforming Astronomical Imaging-surveys through Polychromatic Analysis of Nebulae (TAIPAN)
 Herschel Extragalactic Legacy Project: (HELP), herschel.sussex.ac.uk
 Galaxy and Mass Assembly (GAMA)
 GAMA Legacy ATCA Southern Survey (GLASS)
 4HS (the 4MOST Hemispheric Survey)

Committees

International Planetarium Society – Africa: senior council advisor/consultant
 Australia Research Council, Excellence in Research (ERA), Peer Review Panel (2018)
 ATNF Time Allocation Committee to review ATCA Legacy Projects (2016)
 SAIP 2016 Winter School of Physics and Astronomy; chair
 Iziko Museum Digital Planetarium Technical Advisory Committee (2015-2016); chair
 South Africa Astronomy Decadal Panel (1): Excellence in Research: Research niche thematic areas (2013-14)
 South Africa Astronomy Decadal Panel (6): International Partnerships (2013-14)
 Southern Cross Conference (CASS/AAO) – SOC (2012)
 Anglo-Australian Observatory Users Committee (AAOUC), 2007-2010
 ASKAP Survey Science Project Assignment Committee, 2009-2010
 Greater IPAC Environment Council (GIEC; chair), 2008-2010
 JPL-Palomar Observatory Telescope Acquisition Committee, 1996-1998

Teaching Experience & Outreach

NASSP Masters Course: Extragalactic Astronomy, 2013 - present

Instructor, Pomona College, 1999 to 2008.

Course: Life in the Universe (<http://spider.ipac.caltech.edu/staff/jarrett/LiU/>)

Ask an Astronomer (video): *How Can We See A Blackhole?*

Ask an Astronomer (video): *What is a Redshift?*

(http://coolcosmos.ipac.caltech.edu/cosmic_classroom/ask_astronomer/video/)

Annual tour of the Palomar Observatory for San Diego area secondary schools.

Conducted a seminar on the "career of an astronomer" at the Career Day program of the Huntington School of San Marino (junior high school kids)

Infrared Universe: *An Infrared Looking Glass: Peering Through the Milky Way Galaxy*

Teaching Assistant, University of Massachusetts, 1986 - 1990.

Student & Professional Mentoring

Lane Johnson (Pomona College), summer 1999

Luke Johnson (Pomona College), Undergraduate & summer 2000-2001

Jeff Taylor (Harvey Mudd College), summer 2009

Michelle Cluver (PhD, Univ. of Cape Town); this work as part of the Greater IPAC Visiting Graduate Fellow Program, was awarded the "Faculty of Science PhD Medal" for Cape Town University, 2008; 2007-2008

Wendy Williams (Masters; Univ. of Cape Town), 2009-2010

Alexa Wei (San Marino H.S.), summer 2010

Anyia Kwan (San Marino H.S.), summer 2011

Kieren Kleschinski (Monash Univ. & AAO), Nov-Feb 2012

Jon Mauerhan (PhD, UCLA), postdoctoral researcher IPAC, 2009-2011

Chao-Wei Tsai (PhD, UCLA), postdoctoral researcher IPAC, 2009-2012

Eric Murphy (PhD, Yale Univ), postdoctoral researcher, Carnegie Institue, 2011-2012

Maciej Bilicki (PhD, Copernicus Institute, Poland), postdoctoral researcher, Univ of Cape Town, 2012-2015 (currently at Leiden Univ)

Ed Elson (PhD, UCT), postdoctoral researcher, Univ of Cape Town, 2013-2015

Priscilla Chauke (UCT), masters (MSc), 2012-2014 (MSc dissertation completed)

Khaled Said (UCT), masters (MSc completed), 2012-2016 (PhD completed)

Letjatji "Sam" Legodi (UCT), masters (MSc), 2013-2014 (MSc dissertation completed)

Louise Steward (UCT, masters (MSc), 2013-2014 (MSc dissertation completed)

Roger Ianjamasimanana, PhD, 2012-2014 (PhD dissertation completed)

Bernard Asabere, PhD completed, 2013-2016

Christina Magoulas (PhD), postdoctoral research, Univ of Cape Town, 2014-2016 (currently at ANU)

Buntu Ngcebetsha, masters (MSc) completed, 2014-2016 (currently at SKA-SA)

Tamlyn August, (2016) MSc completed

Elizabeth Naluminsa, PhD, 2014-2019 (PhD completed)

Mpati Ramatsoku, PhD completed, 2013-2017

Themba Gqaza, masters (MSc) completed

Marc Harris, PhD, 2017-present

Jamie Bok, PhD, 2017-present

Alex Sivitilli, PhD, 2018-present

Maria Kapala (PhD), postdoctoral research fellow, Univ of Cape Town, 2015-present

Lucia Marchetti (PhD), postdoctoral research fellow, UCT/UWC, 2017-present

Sally MacFarlane (PhD), postdoctoral research fellow, Univ of Cape Town, 2019 - present

Supervision

- Postdoctoral: 3 completions (Caltech); currently 3 (UCT)
- PhD: 7 completion; currently 2 (UCT)
- Msc: 6 completion; currently 1 (UCT)
- Honours & Summer Students: 5 (UCT)

Popular Literature

All Sky images of the Milky Way & Universe, in various publications (e.g., Discover Mag), 2001-present

Discovering the First Galaxies, National Geographic, Feb 2003 issue: graphics and editorial comment.

2MASS Press Release featuring the Extended Source Catalog of galaxies, 2003

Symposium Poster, featured at the IAU Symposium 216 (2003, Sydney Australia) on *Maps of the Cosmos*

The Science of Aliens, London Science Museum exposition, 2004

Webcast (podcast) on *SWIRE and the Tadpole Galaxy*, 2008

1.5 Million Galaxies Revealed, Astronomy Magazine, March 2008 issue: graphics (poster fold-out) and text

Robot Astronomy Talk Show: Gravity and the Great Attractor, (Spitzer Science Center), 2009

A Cosmic Perspective: Multi-wavelength Astrophysics, QUEST Magazine, Volume 9, 2013

The Case for Full-dome Research: Science with Digital Planetariums, Iziko Museum Publication, 2015

The First Year of the Iziko Digital Dome, Iziko Museum Publication, 2018

Scientific Publications

From the SAO/NASA Astrophysics Data System (ADS); see also ORCID: 0000-0002-4939-734X
Since 1986, over 220 peer-reviewed papers have been published in high-impact journals and proceedings that are either authored or co-authored by T.H. Jarrett. H-index = 63, with over 20,000 citations.

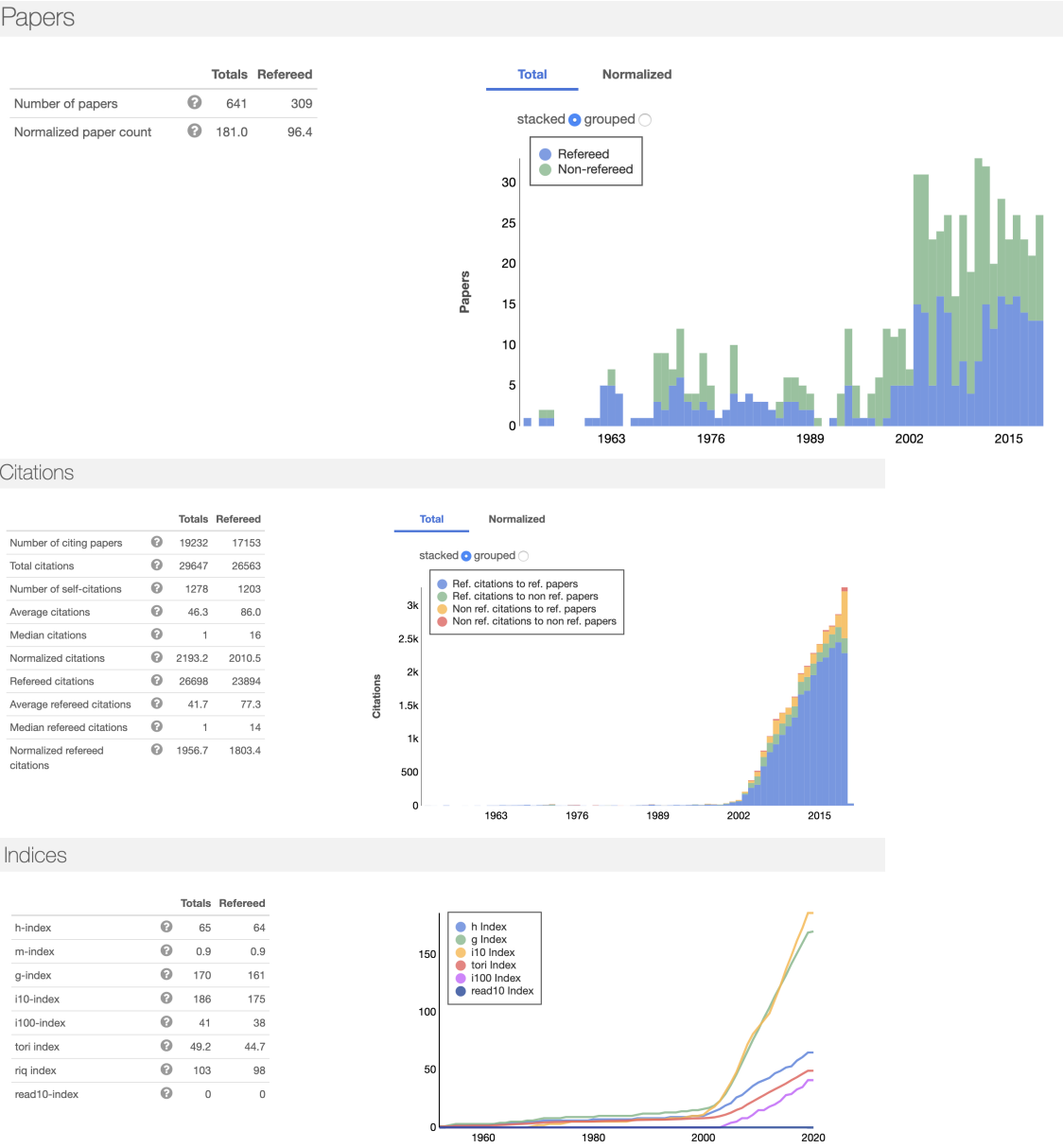


Figure 1: ADS Summary of Publications Statistics for T. Jarrett: 1986 to Dec 2019

Key Refereed Publications

Publications from 2010 - 2019 (Top 10 marked with an Asterisk *)

232. **The WISE Extended Source Catalog (WXSC). I. The 100 Largest Galaxies*,
Jarrett, T. H.; Cluver, M. E.; Brown, M. J. I. et al., 2019, ApJS, 245, 25
<https://ui.adsabs.harvard.edu/abs/2019ApJS..245...25J/abstract>
DOI: 10.3847/1538-4365/ab521a
<https://vislab.idia.ac.za/research>
231. *The Contribution of Galaxies to the 3.4 m Cosmic Infrared Background as Measured Using WISE*,
Lake, S. E., ... **Jarrett, T.H.;**, ..., 2019, ApJ, 887, 207
<https://ui.adsabs.harvard.edu/abs/2019ApJ...887..207L/abstract>
DOI: 10.3847/1538-4357/ab5289
230. *The 2MASS Redshift Survey in the Zone of Avoidance*,
Macri, Lucas M., ... **Jarrett, T.H.;**, ..., 2019, ApJS, 245, 6
<https://ui.adsabs.harvard.edu/abs/2019ApJS..245....6M/abstract>
DOI: 10.3847/1538-4365/ab465a
229. *A Break in Spiral Galaxy Scaling Relations at the Upper Limit of Galaxy Mass*,
Ogle, P., Jarrett, Thomas; et al., 2019, ApJ, 884, L11
<https://ui.adsabs.harvard.edu/abs/2019ApJ...884L..11O/abstract>
DOI: 10.3847/2041-8213/ab459e
228. *CWISEP J193518.59-154620.3: An Extremely Cold Brown Dwarf in the Solar Neighborhood Discovered with CatWISE*,
Marocco, F., ... **Jarrett, T.H.;**, ..., 2019, ApJ, 881, 17
<https://ui.adsabs.harvard.edu/abs/2019ApJ...881...17M/abstract>
DOI: 10.3847/1538-4357/ab2bf0
227. *2MTF - VII. 2MASS Tully-Fisher survey final data release: distances for 2062 nearby spiral galaxies*
Hong, Tao, ... **Jarrett, T.H.;**, ..., 2019, MNRAS, 487, 2061
<https://ui.adsabs.harvard.edu/abs/2019MNRAS.487.2061H/abstract>
DOI: 10.1093/mnras/stz1413
226. *The DataToDome Initiative at the Iziko Planetarium in Cape Town and the IDIA Visualisation Lab*,
Marchetti, L., Jarrett, T.H., et al., 2019, ADASS 2019 (Groningen)
<http://www.acgc.uct.ac.za/jarrett/papers/>
225. *Virtual Reality and Immersive Collaborative Environments: the New Frontier for Big Data Visualisation*,
Sivitilli, A., Comrie, A., Marchetti, L. and Jarrett, T.H., 2019, ADASS-2019 (Groningen)
<http://www.acgc.uct.ac.za/jarrett/papers/>
216. *Discovery of a pulsar-powered bow shock nebula in the Small Magellanic Cloud supernova remnant DEM S5*
Alsaberi, R... **Jarrett, T.H.;**, ..., 2019, MNRAS, 486, 2507
<http://adsabs.harvard.edu/abs/2019MNRAS.486.2507A>
10.1093/mnras/stz971
215. *Spectroscopic confirmation and modelling of two lensed quadruple quasars in the Dark Energy Survey public footprint*
Spiniello, C., ... **Jarrett, T.H.;**, ..., 2019, MNRAS, 485, 5086
<http://adsabs.harvard.edu/abs/2019MNRAS.485.5086S>
10.1093/mnras/stz781

214. *H I galaxies with little star formation: an abundance of LIERs*
Parkash, V., ..., **Jarrett, T.H.**, ..., 2019, MNRAS, 485, 3168
<http://adsabs.harvard.edu/abs/2019MNRAS.485.3169P>
10.1093/mnras/stz593
213. *Calibrating Star Formation Rate Prescriptions at Different Scales (10 pc-1 kpc) in M31*
Tomicic, N., ..., **Jarrett, T.H.**, ..., 2019, ApJ, 873, 3
<http://adsabs.harvard.edu/abs/2019ApJ...873....3T>
10.3847/1538-4357/ab03ce
212. *Star formation and gas in the minor merger UGC 10214*
Rosado-Belza, D., ..., **Jarrett, T.H.**, ..., 2019, A&A, 623, 154
<http://adsabs.harvard.edu/abs/2019A>
10.1051/0004-6361/201833896
211. *Interplanetary Scintillation studies with the Murchison Wide-field Array IV: The hosts of sub-arcsecond compact sources at low radio frequencies*
Sadler, E., ..., **Jarrett, T.H.**, ..., 2019, MNRAS, 483, 1354
<http://adsabs.harvard.edu/abs/2019MNRAS.483.1354S>
DOI: 10.1093/mnras/sty3033
210. *Calibrating the James Webb Space Telescope Filters as Star Formation Rate Indicators*
Senarath, M.R., ..., **Jarrett, T.H.**, ..., 2018, ApJ, 869, L26
<http://adsabs.harvard.edu/abs/2018ApJ...869L..26S>
10.3847/2041-8213/aaf4ff
209. *A Multi-Scale Study of Star Formation in Messier 33*
Elson, E. C., Kam, S. Z., Chemin, L., Carignan, C., Jarrett, T. H., 2018, 483, 931
<http://adsabs.harvard.edu/abs/2019MNRAS.483..931E>
DOI: 10.1093/mnras/sty3091
208. *The 2.4 m Galaxy Luminosity Function as Measured Using WISE. III. Measurement Results*
Lake, S.E., ..., **Jarrett, T.H.**, ..., 2018, ApJ, 866, 45
<http://adsabs.harvard.edu/abs/2018ApJ...866...45L>
207. *The 2.4 m Galaxy Luminosity Function as Measured Using WISE. II. Sample Selection*
Lake, S.E., ..., **Jarrett, T.H.**, ..., 2018, ApJ, 866, 44
<http://adsabs.harvard.edu/abs/2018ApJ...866...44L>
206. *Unique Tracks Drive the Scatter of the Spatially Resolved Star Formation Main Sequence*
Hall, C., ..., **Jarrett, T.H.**, ..., 2018, ApJ, 865, 154
<http://adsabs.harvard.edu/abs/2018ApJ...865..154H>
205. *A GBT Survey of the HALOGAS Galaxies and Their Environments. I. Revealing the Full Extent of H I around NGC 891, NGC 925, NGC 4414, and NGC 4565*
Pingel, N., ..., **Jarrett, T.H.**, ..., 2018, ApJ, 865, 36
<http://adsabs.harvard.edu/abs/2018ApJ...865...36P>
204. *Relationships between HI Gas Mass, Stellar Mass, and the Star Formation Rate of HICAT+WISE (HI-WISE) Galaxies*
Parkash, V., Brown, M.J.I., Jarrett, T. H., Bonne, N.J., 2018, ApJ, 864, 40
<http://adsabs.harvard.edu/abs/2018ApJ...864...40P>
203. *Photometric redshifts for the Kilo-Degree Survey. Machine-learning analysis with artificial neural networks*
Bilicki, M., ..., **Jarrett, T.H.**, ..., 2018, A&A, 616, 69.
<http://adsabs.harvard.edu/abs/2018A>
202. *GHASP: an H kinematical survey of spiral galaxies - XI. Distribution of luminous and dark matter in spiral and irregular nearby galaxies using WISE photometry*
Korsaga, M., Carignan, C., Amram, P., Epinat, B., Jarrett, T. H., 2018, MNRAS, 478, 50
<http://adsabs.harvard.edu/abs/2018MNRAS.478...50K>

201. *A Multi-Frequency Study of the Milky Way-Like Spiral Galaxy NGC 6744*
Yew, M., ..., **Jarrett, T.H.**, ..., 2018, PASA, 35, 15
<http://adsabs.harvard.edu/abs/2018PASA...35...15Y>
200. *Herschel Spectroscopy of the Taffy Galaxies (UGC 12914/12915 = VV 254): Enhanced [C II] Emission in the Collisionally Formed Bridge*
Peterson, B., ..., **Jarrett, T.H.**, ..., 2018, ApJ, 855, 141
<http://adsabs.harvard.edu/abs/2018ApJ...855..141P>
199. *After the Fall: The Dust and Gas in E+A Post-starburst Galaxies*, Smercina, A., ..., **Jarrett, T.H.**, ..., 2018, ApJ, 855, 51
<http://adsabs.harvard.edu/abs/2018ApJ...855...51S>
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163. * *The Most Luminous Galaxies Discovered by WISE*
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162. *Half of the Most Luminous Quasars May Be Obscured: Investigating the Nature of WISE-Selected Hot Dust-Obscured Galaxies*
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161. *Survey Simulations of a New Near-Earth Asteroid Detection System*
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151. *The 6dF Galaxy Survey: Fundamental Plane data*
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150. *2MTF III. H I 21 cm observations of 1194 spiral galaxies with the Green Bank Telescope*
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148. *The Herschel Exploitation of Local Galaxy Andromeda (HELGA). IV. Dust scaling relations at sub-kpc resolution*
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Comments: 12 citations; Incredibly useful SED templates that may be deployed in population modeling of nearby galaxies as well as a number of other applications (e.g., photometric redshift estimation).
146. *Infrared-faint radio sources: a new population of high-redshift radio galaxies*
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145. *The Norma cluster (ACO 3627) - III. The distance and peculiar velocity via the near-infrared Ks-band Fundamental Plane*
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Comments: 9 citations; Application of the WISE resolved and point source extractions to large survey samples. Represents the most complete comparison between WISE star formation activity and the corresponding H α estimates for large and diverse samples.
143. * *Two Micron All Sky Survey Photometric Redshift Catalog: A Comprehensive Three-dimensional Census of the Whole Sky*
Bilicki, M., **Jarrett, T.H.**, et al., 2014, ApJS, 210, 9.
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141. *WISE Detections of Known QSOs at Redshifts Greater than Six*
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140. *Shock-enhanced C+ Emission and the Detection of H₂O from the Stephan's Quintet Group-wide Shock Using Herschel*
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139. *UV-bright Nearby Early-type Galaxies Observed in the Mid-infrared: Evidence for a Multi-stage Formation History by Way of WISE and GALEX Imaging*
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Assef, R.J., ..., **Jarrett, T.H.**, ..., 2013, ApJ, 772, 26.
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Muoz-Mateos, Juan Carlos, ..., **Jarrett, T.H.**, ..., 2013, ApJ, 771, 59.

136. *2MTF - II. New Parkes 21-cm observations of 303 southern galaxies*
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135. *A New Population of High-z, Dusty Ly Emitters and Blobs Discovered by WISE: Feedback Caught in the Act?*
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134. *Enhanced Warm H₂ Emission in the Compact Group Mid-infrared "Green Valley"*
Cluver, M.E., ..., **Jarrett, T.H.**, ..., 2013, ApJ, 765, 93.
133. *A T8.5 Brown Dwarf Member of the Ursae Majoris System*
Wright, E.L., ..., **Jarrett, T.H.**, ..., 2013, AJ, 145, 84.
132. *Characterizing the Mid-infrared Extragalactic Sky with WISE and SDSS*
Yan, L., ..., **Jarrett, T.H.**, ..., 2013, AJ, 145, 55.
131. ** Extending the Nearby Galaxy Heritage with WISE: First Results from the WISE Enhanced Resolution Galaxy Atlas*
Jarrett, T.H., et al., 2013, AJ, 145, 6.
Comments: 36 citations; The basic primer for extended source (galaxy) measurements with WISE. Re-calibrates the stellar mass and star formation activity indicators for the WISE bands.
130. *Constructing a WISE High Resolution Galaxy Atlas*
Jarrett, T.H., et al., 2012, AJ, 144, 68.
129. *Precision cosmology with the 2MASS clustering dipole*
Bilicki, Maciej, Chodorowski, Micha, Hellwing, Wojciech, **Jarrett, T.H.**, Mamon, Gary, 2012 (arXiv:1211.1246)
128. *Optimal Multiwavelength Source Detection: Experience Gained from the WISE Mission*
Marsh, K.A. & **Jarrett, T.H.**, 2012, PASA, 29, 269.
127. *The 6dF Galaxy Survey: the near-infrared Fundamental Plane of early-type galaxies*
Magoulas, C., ... **Jarrett, T.H.**, et al., 2012, MNRAS, 427, 245.
126. *The Star Formation in Radio Survey: GBT 33 GHz Observations of Nearby Galaxy Nuclei and Extranuclear Star-Forming Regions*
Murphy, E.J., ..., **Jarrett, T.H.**, 2012, ApJ, 761, 97; (arXiv1210.3360M).
125. *Spitzer Photometry of WISE-selected Brown Dwarf and Hyper-luminous Infrared Galaxy Candidates*
Griffith, R., ... , **Jarrett, T.H.**, et al., 2012, AJ, 144, 148.
124. *Mid-infrared Selection of Active Galactic Nuclei with the Wide-Field Infrared Survey Explorer. I. Characterizing WISE-selected Active Galactic Nuclei in COSMOS*
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123. *Gas and star formation in the Circinus galaxy*
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122. *Submillimeter Follow-up of WISE-selected Hyperluminous Galaxies*
Wu, J., ..., **Jarrett, T.H.**, et al., 2012, ApJ, 756, 96.
121. *The First Hyper-luminous Infrared Galaxy Discovered by WISE*
Eisenhardt, P., ..., **Jarrett, T.H.**, et al., 2012, ApJ, 755, 173.
120. *Detection of Powerful Mid-IR H₂ Emission in the Bridge between the Taffy Galaxies*
Peterson, B., **Jarrett, T.H.**, et al., 2012, ApJ, 751, 11.
119. *Variability Flagging in the Wide-field Infrared Survey Explorer Preliminary Data Release*
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118. * *The 2MASS Redshift Survey Description and Data Release*
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Comments: 110 citations; Still remains the only full sky redshift (spectroscopic) survey of galaxies.
117. *Origin of 12 m Emission across Galaxy Populations from WISE and SDSS Surveys*
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116. *Direct Evidence for Termination of Obscured Star Formation by Radiatively Driven Outflows in Reddened QSOs*
Farrah, D., ... , **Jarrett, T.H.**, ..., 2012, ApJ, 745, 178.
115. *Optical Spectroscopic Survey of High-latitude WISE-selected Sources*
Lake, S., ..., **Jarrett, T.H.**, ..., 2012, AJ, 143, 7.
114. *Spitzer IRS Spectral Mapping of the Toomre Sequence: Spatial Variations of PAH, Gas, and Dust Properties in nearby Major Mergers*
Haan, S., ..., **Jarrett, T.H.**, ..., 2011, ApJS, 197, 27.
113. *A WISE View of Star Formation in Local Galaxy Clusters*
Chung, Sun Mi, ..., **Jarrett, T.H.**, 2011, ApJ, 743, 34.
112. *Is the 2MASS Clustering Dipole Convergent? Part I: Growth of the dipole*
Bilicki, M., Chodorowski, M., **Jarrett, T.H.**, Mamon, G., 2011, ApJ, 741, 31.
111. * *The Spitzer-WISE Survey of the Ecliptic Poles*
Jarrett, T., et al., 2011, ApJ, 735, 112.
Comments: 128 citations; the second "definition" paper in the WISE mission to map the universe in the mid-infrared bands. This first presents the calibration and first science results (see also Wright et al. 2010).
110. *WISE Discovery of Low-metallicity Blue Compact Dwarf Galaxies*
Griffith, R., ..., **Jarrett, T.H.**, et al., 2011, ApJ, 736, L22.
109. *The First Ultra-cool Brown Dwarf Discovered by the Wide-field Infrared Survey Explorer*
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108. *The Spitzer Survey of Stellar Structure in Galaxies (S4G)*, Sheth, K., ..., **Jarrett, T.H.**, et al., 2010, PASP, 122, 1397.
107. * *Active Disk Building in a Local H I-massive LIRG: The Synergy Between Gas, Dust, and Star Formation*, Cluver, M., **Jarrett, T.H.**, et al., 2010, ApJ, 725, 1550.
Comments: 190 citations; The definitive study of the most massive galaxy in the local universe. See also: *The hidden HI-massive LIRG HIZOA J0836-43: Inside-out galaxy formation*, Cluver, Jarrett, et al., 2008, ApJ, 686, L17.
106. * *The Wide-field Infrared Survey Explorer (WISE): Mission Description and Initial On-orbit Performance*, Wright, E., ..., **Jarrett, T.H.**, et al., 2010, AJ, 140, 1868.
Comments: 1408 citations; the first "definition" paper in the WISE mission to map the universe in the mid-infrared bands. This first presents the overview of the project, and the second describes the calibration and first science results (see Jarrett et al. 2011).
105. *Mid-infrared Evidence for Accelerated Evolution in Compact Group Galaxies*, Walker, L., ..., **Jarrett, T.H.**, et al., 2010, AJ, 140, 1254.
104. *Young stars and protostellar cores near NGC 2023*, Mookerjee, B., Sandell, G., **Jarrett, T.**, McMullin, J., 2009, A&A, 507, 1485.

103. *The 6dF Galaxy Survey: final redshift release (DR3) and southern large-scale structures*, Jones, D.H., ..., **Jarrett, T.H.**, et al., 2009, MNRAS, 399, 683.
102. *Properties of dusty tori in active galactic nuclei - II. Type 2 AGN*, Hatziminaoglou, E., Fritz, J., **Jarrett, T. H.**, 2009, MNRAS, 399, 1206.
101. *Young stars and protostellar cores near NGC 2023*, Mookerjee, B., Sandell, G., **Jarrett, T. H.**, McMullin, J. P., 2009, A&A, 507, 1485.
100. *2MASS/SDSS Close Major-Merger Galaxy Pairs*, Domingue, Donovan L., Xu, C. K., **Jarrett, T. H.**, Cheng, Y., 2009, ApJ, 695, 1559.
99. *Carbon Monoxide in the Cassiopeia a Supernova Remnant*, Rho, J., **Jarrett, T. H.**, Reach, W. T., Gomez, H., Andersen, M., 2009, ApJ, 693L, 39.
98. *The Spitzer Infrared Nearby Galaxies Survey: A High-Resolution Spectroscopy Anthology*, Dale, D. A., Smith, J. D. T., Schlawin, E. A., Armus, L., Buckalew, B. A., Cohen, S. A., Helou, G., **Jarrett, T. H.**, Johnson, L. C., Moustakas, J., Murphy, E. J., Roussel, H., Sheth, K., Staudaher, S., Bot, C., Calzetti, D., Engelbracht, C. W., Gordon, K. D., Hollenbach, D. J., Kennicutt, R. C., Malhotra, S., 2009, ApJ, 693, 1821.
97. *Powerful H2 Emission and Star Formation on the Interacting Galaxy System Arp 143: Observations with Spitzer and Galex*, Beiro, P., Appleton, P. N., Brandl, B. R., Seibert, M., **Jarrett, T.**, Houck, J. R., 2009, ApJ, 693, 1650.
96. *The Impact and Fate of the ISM in Compact Groups of Galaxies*, **Jarrett, T.**, Johnson, K., Hibbard, J., Gallagher, S., Charlton, J., Hornschemeier, A, 2009, in *The Evolving ISM in the Milky Way & Nearby Galaxies*, 10J.
95. *Properties of Protostars in the Elephant Trunk in the Globule IC 1396A*, Reach, William T., Faied, Dohy, Rho, Jeonghee, Boogert, Adwin, Tappe, Achim, **Jarrett, Thomas H.**, Morris, Patrick, Cambrsy, Laurent, Palla, Francesco, Valdetaro, Riccardo, 2009, ApJ, 690, 683.
94. *The hidden HI-massive LIRG HIZOA J0836-43: Inside-out galaxy formation*, Cluver, M., **Jarrett, T.H.**, et al., 2008, ApJ, 686, L17.
93. *The luminosity-halo mass relation for brightest cluster galaxies*, Brough, S., Couch, W. J., Collins, C. A., **Jarrett, T.**, Burke, D. J., Mann, R. G., 2008, MNRAS, 385, 103.
92. *Spectral Mapping Reconstruction of Extended Sources*, Smith, J. D., ..., **Jarrett, T.H.**, et al., 2007, PASP, 119, 1133.
91. *The Incidence of Highly Obscured Star-forming Regions in SINGS Galaxies*, Prescott, Moire, ..., **Jarrett, T.H.**, et al., 2007, ApJ, 668, 182.
90. *Gaps in the Cloud Cover? Comparing Extinction Measures in Spiral Disks*, Holwerda, B., ..., **Jarrett, T.H.**, et al., 2007, AJ, 134, 1655.
89. *The Infrared Properties of Hickson Compact Groups*, Johnson, K., ..., **Jarrett, T.H.**, et al., 2007, AJ, 134, 1522.
88. *Chandra Observations of SN 2004et and the X-Ray Emission of Type II-P Supernovae*, Rho, J., **Jarrett, T. H.**, Chugai, N. N., Chevalier, R. A. 2007, ApJ, 666, 1108.
87. *The Calibration of Mid-Infrared Star Formation Rate Indicators*, Calzetti, D., ..., **Jarrett, T.H.**, et al., 2007, ApJ, 666, 870.
86. *The Spitzer c2d Survey of Large, Nearby, Interstellar Clouds. VI. Perseus Observed with MIPS*, Rebull, L., ..., **Jarrett, T.H.**, et al., 2007, ApJS, 171, 447.
85. *Keck spectroscopy and Spitzer space telescope analysis of the outer disk of the Triangulum spiral galaxy M33*, Block, D. ..., **Jarrett, T.H.**, et al., 2007, A&A, 471, 467.

84. *Specific Star Formation Rate Profiles in Nearby Spiral Galaxies: Quantifying the Inside-Out Formation of Disks*, Muoz-Mateos, J. C., Gil de Paz, A., Boissier, S., Zamorano, J., **Jarrett, T.**, Gallego, J., Madore, B. F., 2007, ApJ, 658, 1006.
83. *A Near-Infrared Study of 2MASS Bars in Local Galaxies: An Anchor for High-Redshift Studies*, Menndez-Delmestre, K., Sheth, K., Schinnerer, E., **Jarrett, T.H.**, Scoville, N., 2007, ApJ, 657, 790.
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67. *Chandra and Spitzer Unveil Heavily Obscured Quasars in the Chandra/SWIRE Survey*, Polleta, M., ..., **Jarrett, T.H.**, et al., 2006, ApJ, 642, 673.
66. *Nearby Spiral Globular Cluster Systems. I. Luminosity Functions*, Nantais, J., Huchra, J, Barmby, P., Olson, K., **Jarrett, T.**, 2006, AJ, 131, 141.
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47. *SWIRE: The SIRTf Wide-Area Infrared Extragalactic Survey*, Lonsdale, C., ..., **Jarrett, T.H.**, et al., 2003, PASP, 115, 897.
46. *SINGS: The SIRTf Nearby Galaxies Survey*, Kennicutt, R., ..., **Jarrett, T.H.**, et al., 2003, PASP, 115, 928.
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Other Research Outputs: Data & Catalogues

- WISE Galaxy Atlas and Catalogue (Jarrett et al. 2017)
- VizieR Online Data Catalog: M31 Herschel images, 2014
- VizieR Online Data Catalog: An atlas of UV-to-MIR galaxy SEDs, 2014
- VizieR Online Data Catalog: 2MTF. HI observations of 303 southern galaxies, 2014
- Explanatory Supplement to the AllWISE Data Release Products, 2013
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- Spectroscopy Catalog – The 2MASS Redshift Survey (2MRS) Catalog, 2012

- Data Catalog – 2MASS 6X Point Source Working Database / Catalog, 2012
- Astronomical Software – CUBISM: CUbe Builder for IRS Spectra Maps, 2011
- Data Catalog – SWIRE/SDSS quasars. II. Type 2 AGN, 2011
- Data Catalog – Spitzer Survey of Stellar Structure in Galaxies (S4G), 2011
- Data catalog – Young (proto)stellar population in L1630, 2011
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- Discovery Circular: Minor Planet Observations, 2009
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