Thomas J. Maccarone

PERSONAL INFORMATION

Born August 26, 1974, Haverhill, Massachusetts, USA
US Citizen

CONTACT INFORMATION

Department of Physics & Astronomy
Texas Tech University
Lubbock TX 79409

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RESEARCH INTERESTS

Compact object populations, especially in globular clusters; accretion and ejection physics; time series analysis methodology

PROFESSIONAL EXPERIENCE

Texas Tech University
Lubbock, Texas
Presidential Research Excellence Professor, Department of Physics & Astronomy August 2018-present

Professor, Department of Physics & Astronomy August 2017- August 2018

Associate Professor, Department of Physics January 2013 - August 2017

University of Southampton
Southampton, UK
Lecturer, then Reader, School of Physics and Astronomy July 2005-December 2012

University of Amsterdam
Amsterdam, The Netherlands
Postdoctoral researcher May 2003 - June 2005

SISSA (Scuola Internazionale di Studi Avanazti/International School for Advanced Studies)
Trieste, Italy
Postdoctoral researcher November 2001 - April 2003

Yale University
New Haven, Connecticut USA
Research Assistant May 1997 - August 2001

Jet Propulsion Laboratory
Pasadena, California USA
Summer Undergraduate Research Fellow June 1994 - August 1994

EDUCATION

Yale University, New Haven, CT USA
Department of Astronomy
Ph.D., December 2001

Dissertation Title: "Constraints on Black Hole Emission Mechanisms"
Advisor: Paolo S. Coppi

M.S., M.Phil., Astronomy, May 1999

California Institute of Technology, Pasadena, California USA
B.S., Physics, June, 1996

HONORS AND AWARDS	Integrated Scholar, Designation from Texas Tech for faculty who integrate teaching, research and service activities together, 2020 Professor of the Year Award, Texas Tech Society of Physics Students, 2017, 2019 Dirk Brouwer Prize from Yale University for "a contribution of unusual merit to any branch of astronomy," 2003 Harry A. Smith Fellowship in Astronomy from Yale University, 1997-8 Dorris A. Perpall Speaking Award, Caltech, 1995 Dutton Memorial Scholarship, Caltech, 1993-6 Steven David Jochnowitz Scholarship, 1992-3 Swampscott War Memorial Scholarship, 1992-3
LARGE MULTI-YEAR SURVEY PROGRAM AND MISSION TEAM MEMBERSHIPS	MAVERICS survey to search for black holes in globular clusters STROBE-X mission: leading science case development NGVLA Science Advisory Committee
FUNDED EXTENDED VISITS TO OTHER INSTITUTIONS	Kavli Institute of Theoretical Physics, UCSB, spring 2009 Institute for Astrophysics of the Canary Islands, through Severo Ochoa program, summer 2013
RESEARCH SUPERVISION AND VISITOR HOSTING	*Fulbright Fellow hosted* Tana Joseph, from South African Astronomical Observatory, fall 2017-winter 2018 *Postdoctoral fellows* Andrea Dieball (jointly supervised with Christian Knigge from April 2009-October 2011); currently a temporary lecturer at the University of Southampton, then Marie Curie fellowship at University of Bonn, then research scientist at Bonn Piergiorgio Casella (Marie Curie fellow), June 2009-September 2011, currently a permanent research astronomer at the Rome Observatory Chris Britt, October 2013-October 2016, currently in permanent position in outreach division at Space Telescope Science Institute Paul Sell, October 2013-December 2015, currently postdoctoral fellow at University of Crete, to start as lecturer at University of Florida, fall 2019 Lennart van Haaften, April 2015-February 2018 (currently data scientist, Dutch tax agency) Liliana Rivera Sandoval, October 2017-November 2020, followed with Avadh Bhatia fellowship at University of Alberta, currently assistant professor at University of Texas-Rio Grande Valley Alexandra Tetarenko, October 2021-present, Einstein Fellow Bailey Tetarenko, October 2021-April 2022, currently holds independent fellowship at McGill University *PhD and master's students* At Texas Tech University: Manuel Pichardo Marcano (PhD August 2022), due to start postdoctoral fellowship at American Museum of Natural History in fall Kavitha Arur (PhD May 2020), currently Center for Relativistic Astrophysics Postdoctoral Fellow at Georgia Tech Paul Bennet (PhD May 2020), primarily advised by David Sand and Denija Crnojevic, but chaired thesis committee because Sand moved to Arizona, currently postdoctoral fellow at Space Telescope Science Institute Arlo Osler (MS 2017 with thesis, currently faculty at Pima Community College), Jose Sanchez (MS 2016, currently faculty at Naval Academy Preparatory School), Matthew Streseman (MS 2017), Eli Pattie (currently past prelimary exam), Miranda Maille (MS August 2022), John Morales (currently in coursework portion of PhD program at Texas Tech) At the University of Southampton:

Mark Peacock (finished April 2010), then postdoctoral fellow and research scientist at Michigan State University, now in data science
Anna Kapińska (finished June 2012; began thesis with Christian Kaiser and continued with Phil Uttley, both of whom left the university while she was a student), was a postdoctoral fellow at the University of Portsmouth, currently a postdoctoral fellow at University of Western Australia, holds permanent position at National Radio Astronomy Observatory
Pablo Cassatella (finished October 2012; originally supervised by Phil Uttley before Phil left for Amsterdam) served briefly as a senior research fellow at the National University of Singapore in renewable energy research; currently working in quantitative finance
Tana Joseph (successfully defended April 2013); followed with Square Kilometer Array fellowship at SAAO, then Fulbright Scholar at Texas Tech, then Newton Fellow, University of Manchester, now postdoctoral researcher at University of Amsterdam, and leading AstroComms scientific communication company
Dave Zurek, PhD defended February 2016, co-supervised with Christian Knigge, currently holds permanent academic position at the American Museum of Natural History
Co-supervisor of European Union Initial Training Network student Yi-Jung Yang at the University of Amsterdam (primary supervisor was Rudy Wijnands) – currently a postdoctoral fellow at IHEP, and *de facto* co-supervisor for David Cseh at University of Paris VII (primary supervisor is Stéphane Corbel), finished September 2012, first job was as postdoctoral fellow at Radboud Universiteit in Nijmegen, The Netherlands

External students co-supervised
Laurens Sluyterman, honor's program thesis, Radboud University, summer 2017
Duygu Durmuş, master's thesis, University of Istanbul, summer 2017–spring 2018

Master's thesis before Texas Tech
Supervised master's thesis project of Michiel Smits at the University of Amsterdam; Michiel became a high school physics teacher

Term time undergraduate research

Typically about 5 undergraduate research students at a time. A few have been funded via the SDSS FAST program to promote underrepresented students in astronomy, and one has been a McNair Scholar. Students have also successfully received outside placements at NASA, the National Radio Astronomy Observatory and the Naval Research Labs

Teaching Experience

Texas Tech University
ASTR 4301: Astrophysics I – stellar evolution
ASTR 4302: Astrophysics II – galaxies
PHYS 2305: Computation for the Physical Sciences
PHYS 2302: Physics III (new version, intermediate classical mechanics) PHYS 2402: Physics III (Modern physics)
PHYS 1408: Physics I (Newtonian mechanics)
PHYS 3302: Cosmophysics
University of Southampton
Lecturer/course coordinator
Physics 1005: Introduction to Astronomy and Space Science
Physics 1009: Astronomy for Poets
Physics 3016: BSc Projects - coordinator of projects for all final year bachelor's degree students
Physics 3018: Stellar Evolution
Physics 6017: Computer Techniques in Physics
Laboratories

Demonstrator for second year lab course, and examiner for third year laboratory course
Tutorials:
Led tutor groups for first year physics courses – responsibilities consist of acting as the academic advisor for groups of four physics students and having weekly meetings to discuss their progress in their first year physics courses

University of Amsterdam
Guest Lecturer
Taught portion of third year undergraduate level Compact Objects course
Project Supervisor
Supervised second-year research project on black hole formation done by three students, and third year project for one student on deep radio surveys of fields with multi-wavelength coverage.

International School For Advanced Studies
Guest Lecturer
Taught X-ray binaries portion of graduate level high energy astrophysics course

Yale University
Guest Lecturer

Astronomy 110. Birth, Death, and Life of Stars
Astronomy 130. Life in the Universe
Physics 301. Introduction to Mathematical Methods of Physics

Head Teaching Fellow

Astronomy 130. Life in the Universe.

Teaching Fellow

Astronomy 110. Birth, Death, and Life of Stars.
Astronomy 120. Galaxies and the Universe.
Summer Science Course 110. Elements of Computing

PROFESSIONAL SOCIETIES

Member of American Astronomical Society, Royal Astronomical Society (allowed membership to lapse in 2021), International Astronomical Union, Higher Education Academy, American Physical Society

Advisory Boards and Panels

Ad hoc committee to advise Chandra Observatory director on time domain astrophysics, summer-fall 2021
Henri Chretien International Research Grant Selection Committee for American Astronomical Society, 2021-2022
Board of Directors for American Association of Variable Star Observers (2nd oldest citizen science organization in the world), November 2022–present Program Committee for American Association of Variable Star Observers, January 2021– fall 2022
Chair of Diversity Committee for American Association of Variable Star Observers, November 2022–present
High Energy Astrophysics Division of AAS, Executive Committee, January 2021-January 2024
US National Committee for the International Astronomical Union, January 2019–January 2022
NRAO Users' Committee, May 2020–present, chaired committee in 2022
Next Generation VLA Science Advisory Committee, 2017–present
Chandra Users' Committee, 2015–2018, Chair 2018–2019
RoboNet Consortium Advisory Board Member, 2006-2008
Judge for Royal Astronomical Society's science writing contest, 2005 and 2006 contests
Member of Time Allocation Committee for NASA Rossi X-ray Timing Explorer Cycle 10
Member of Time Allocation Committee for NASA Chandra X-ray Observatory Cycles 7,9, 12, 14 and 18
Member of Time Allocation Committee for ESA XMM-Newton Observatory Cycles 6,7 and 12
Member of Time Allocation Committee for NASA Swift Observatory, 2013
Member of MERLIN (Multi-Element Radio Linked Interferometer Network) Time Allocation Group, term from 2007-2010
Chair of INTEGRAL compact objects time allocation panel (AO-9 and AO-10 – 2011 and 2012)
Member of Hubble Space Telescope time allocation committee, 2015
Member of NOAO Galactic Time Allocation Committee, spring 2017– fall 2019

Scientific Organizing Committees

AAVSO Annual Meeting, to be held November 2022 in Tucson, member of Scientific Organizing Committee

Astrophysics with the CMB-S4 Survey II: Source and Transient Science, hybrid meeting in July 2022, hosted online and at the University of Illinois, member of Scientific Organizing Committee

Chandra Frontiers in Time Domain Science, online meeting in October 2020, member of Scientific Organizing Commitee

Compact Objects and Energetic Phenomena in the Multi-messenger Era, held as online meeting in July 2020, with in person meeting probably in summer 2023, co-chair of Scientific Organizing Committee

Texas Section American Physical Society/American Association of Physics Teachers/Society of Physics Students Joint Meeting, October 25-6, 2019, Lubbock TX, lead organizer

High Throughput Multi-band Spectral Timing, March 19, 2019, Monterey, CA, special session at High Energy Astrophysics Division meeting, lead organizer

Long Baseline Futures meeting II, October 19-20, 2018, Atlanta, GA, lead organizer

Astrophysical Froniters in the Next Decade and Beyond, June 26-9, 2018, Portland OR, member of Scientific Organizing Committee

VLBI futures meeting, co-chair of meeting and lead local organizer, March 12-3, 2018, Lubbock TX

STROBE-X science meeting, chair of SOC, lead local organizer, Lubbock TX, September 18-20, 2017

Stellar Remnants at the Junction:Comparing Accreting White Dwarfs, Neutron Stars, and Black Holes, co-lead organizer, Junction TX, May 2-6, 2016

Evolution of Massive Stellar Binaries: Modeling and Observations, session at COSPAR meeting, July 30-August 7, 2016, Istanbul, deputy organizer (meeting cancelled due to security issues)

Accreting Neutron Stars and Stellar-mass Black Holes, session at COSPAR meeting, July 30-August 7, 2016, Istanbul, Scientific Organizing Commitee member (meeting cancelled due to security issues)

The Variable Galactic Hard X-ray Sky, session at COSPAR meeting, Moscow, August 3-10, 2014, Scientific Organizing Committee

Black holes in globular clusters, April 9, 2013, special session at High Energy Astrophysics Division meeting of American Astronomical Society, Monterey, CA, Scientific Organizing Committee

Black Hole Universe 2012 June 18-22, Bamberg, Germany, Scientific Organizing Committee Member

X-ray Binaries: 50 Years Since the Discovery of Sco X-1, *Chandra X-ray Center science workshop*, July 17-19, 2012, Cambridge, MA, Scientific Organizing Committee member

Signal processing and inference for the physical sciences, Royal Society Discussion Meeting, one of two organizers (with Nick Jones at Imperial College), 26-7 March 2012, London, and a satellite meeting 28-9, March, 2012, Buckinghamshire

LOFT and the Variable X-ray Sky, Royal Astronomical Society Specialists Meeting, lead organizer, 9 December 2011

Black hole astrophyiscs: Tales of power and destruction, member of Scientific Organizing Committee and Local Organizing Committee, July 18-22, 2011, Winchester, UK

"A Population Explosion: The Nature and Evolution of X-ray Binaries in Diverse Environments," Scientific Organizing Committee member, October 28-November 2, 2007, St. Petersburg, Florida

"From X-ray Binaries to Quasars: Black Hole Accretion on All Mass Scales," held July 13-15, 2004 Chair of Scientific Organizing Committee and Local Organizing Committee for meeting of about 55 participants, hosted by the University of Amsterdam, editor of proceedings

Miscellaneous Other Professional Service

Refereeing
Editor of "From X-ray Binaries to Quasars: Black Holes on All Mass Scales," 2005, Springer:Dordrecht

Co-editor, with Nick Jones, of "Signal processing and inference for the physical sciences", volume 371 of *Philosophical Transactions of the Royal Society A*

Have served as referee for Nature, Procedings of the Astronomical Society of Australia, the Astrophysical Journal and Astrophysical Journal Letters, Astronomy & Astrophysics, Monthly Notices of the Royal Astronomical Society, New Astronomy, Science, and the Astronomical Journal, Physical Review Letters, Physical Review D – I have typically refereed about 4-8 papers per year for major journals over the past five years

Referee for PPARC/STFC Observational Astronomy grants panel, PPARC/STFC Fellowships panel, grant agency of Czech Academy of Sciences, STFC Panel for the Allocation of Telescope Time

(PATT), British Council science grants program, Nederlandse Organisatie voor Wetenschappelijk Onderzoek (Dutch Science Foundation) grants program, Taiwanese CFHT time allocation panel, Canadian JCMT time allocation panel, Israel Science Foundation

Proposal referee for VLA and VLBA, term from 2009-2010

Panelist for National Science Foundation Astronomy and Astrophysics Grants rounds, 2013, 2014, 2015
Panelist for two National Science Foundation facilities proposals in 2018, and two in 2021
Proposal referee for NWO, 2015
Proposal referee for Israeli Science Foundation, 2015
Proposal referee for National Research Foundation of South Africa, 2015, 2017
Proposal referee for National Science Centre, Poland, 2015
Proposal referee for NSERC, Canada, 2016
Proposal referee for CONACYT, Chile, 2017
Proposal referee for ASI, Italy, 2017, 2018, 2019
Proposal referee for Polish science foundation, 2020, 2021
Proposal referee for German science foundation, 2021
Proposal referee for Belgian science foundation, 2021

Thesis examiner:
Internal examiner for the PhD theses of Elizabeth Barlow, Andrew Barnes, Vanessa McBride, Manuela Molina, Omar Jamil, Tony Wilkinson, Helena Uthas and Sadie Jones

Internal examiner for the MPhil thesis of Simone Scaringi

External examiner for the PhD thesis of Natasha Jackson (University of Birmingham)

External examiner for the PhD thesis of Lindsey Shaw Greening (Open University)

Member of Ph.D. jury for Matthieu Servillat (University of Toulouse)
Rapporteur (member of the reading committee and oral defense jury) for PhD thesis of David Cseh (University of Paris VII), 2012

"Advisor" – a role in the Southampton astronomy group in which two faculty members other than the thesis supervisor help monitor the progress of each PhD student, similar to a thesis committee
Served as advisor for Dan Plant, Dan Calvelo-Santos, Pablo Cassatella (before taking over as his thesis advisor), Tony Wilkinson, Ilja Klees, Helena Uthas, Omar Jamil, Elmé Breedt, Vanessa McBride, Katrine Rogers and David Russell

Since arriving at TTU:
Pre-examiner for Ph.D. thesis of Karri Koljonen, Aalto University, Helsinki, 2013
Thesis committee for M.S., for Greg O'Brien, Matthew Hein, Deven Bhakta
Thesis committee for PhD, for Bimali Jaysinghe (math), Basitha Hewa (math), Paul Bennet

Administrative roles within the School of Physics & Astronomy at the University of Southampton
Staff Student Liaison Committee member for School of Physics and Astronomy 2006-2012

Educational Policy Committee member for School of Physics and Astronomy 2008-2012 – includes service on sub-committee to re-evaluate first year courses

Year 3 Director of Studies – responsible for ensuring uniform academic standards in 3rd year

physics and astronomy courses, 2008-9, 2010-2012

Careers tutor – responsible for working with both the university Careers Service and Southampton physics and astronomy undergraduates to ensure that the students are well-informed about their post-graduation options and take appropriate steps to find future employment and/or postgraduate study programs – 2009-2012

Administrative roles within the University of Southampton
Served as academic representative for hiring of new media relations staff member, February 2009
Faculty Senate, 2009-2012
Service to the department at Texas Tech
Scholarships committee 2021
Faculty and Staff Affairs Committee, fall 2019–present
Undergraduate program committee, spring 2013
Graduate program committee, fall 2013-present
Graduate prelim examination panel, fall 2013, 2014, 2015
Service to College of Arts and Sciences at Texas Tech
Bachelor of Science degree requirement review committee, spring/summer 2015
Blue Ribbon panel to identify National Academy members for recruitment, summer 2015
Ad hoc panel to discuss role of grant-writers within the college, summer 2015

PUBLIC OUTREACH

Texas Tech University
Lubbock High School, October 2014
Girl Scouts STEM day at Texas Tech, April 2015
Clark Scholars Program, Texas Tech University, July 2015
Career Day, Bean Elementary School, October, 2015 & 2017
Girl Scouts STEM day at Texas Tech, November 2015
Science Made Simple day at Museum of Texas Tech University, November 2015
"Bad science" movie night presentation at Alamo Drafthouse, February 2016
AAUW Tech Savvy Day, February 2016, co-presented with Kavitha Arur
Museum of Texas Tech University, Moon Landing Anniversary event, public lecture. July 2019
Regular particiation in Astronight events, 2018–present
Technical advisor for production of *Constellations* by Hub Theatre Group, August 2018
Presentation at *Astronight* on "Astronomy from Space", February 8, 2019
South Plains Astronomy Club, May 2019
Ramirez Elementary School PTA STEM event, January 2020
Alamo Drafthouse, panel member for HD-STEM event for Rise of Skywalker, January 2020
Presentation by webinar to Saudi Youth Space Club, September, 2020
Presentation by webinar to Astronomical Society of the Dominican Republic, October, 2020
Hacienda School (San Jose, California) Star Party, two online talks, December 2020
Online resentation at *Astronight* on "The Christmas Star", December 2020
Texas Tech Museum Association, April 2021
Donahue School (Merrimac, Massachusetts) space talk, online talk, May 2021
Pabna University of Science and Technology, Bangladesh, talk to department's physics students as part of a lecture series, May 2021
LubbockCon, Ask an Astronomer event at online pop culture convention, July 2021
Osher Lifelong Learning Institute, Lubbock, presentation on astronomy from space, September 2021
University of Southampton
Coordinator of Southampton Science Café, a series of monthly public lectures on topics of scientific interest: September 2008-June 2010
Coordinator of astronomy exhibit volunteers for university science week: 2006-7
Presenter on visit days for secondary students aimed at widening participation in higher educa-

tion: 2005-6
Lectures presented to:
Astronomy Club at St. George's School, Southampton, February 2006
Vectis Astronomical Society (Isle of Wight), February 2007
Farnham Astronomical Society, May 2007
"Earth and space" class at Our Lady's Convent School, Hackney, London, May 2007
Ousedale School "Astronomy Day," Milton Keynes, July 2007
Eastbourne Astronomical Society, December 2007
Cardiff Astronomical Society, December 2008
GCSE level Astronomy course, Cantell School, Southampton, March 2009
Southampton Astronomical Society, Southampton, May 2009
Bishop Wordsworth's School, GCSE physics classes, Salisbury, England, September 2009
Andover Astronomical Society, October 2009
Cody Astronomical Society (Farnborough), December 2009
Solent Astronomical Society, March 2010
Lowell Regional Physics Alliance (a group of high school physics teachers), hosted at University of Massachusetts-Lowell, April 2010
Solent Astronomical Society, July 2011
Southern Area Group of Astronomical Societies, summer event on "Developments in Astrophysics and Cosmology", July 2012
Salisbury Chapter of the Institute of Physics, public seminar series, November 2012
Vectis Astronomical Society, November 2012

University of Amsterdam
University Open Day presenter 2003-4
Yale University
Campus Observatory Open House Volunteer 1996-2001
Campus Observatory Open House Coordinator 1999
Lecture presented at Greater Hartford Academy of Math and Science 2001

REFEREED PUBLICATIONS AND INVITED REVIEWS

(* – TTU postdoc lead author; **- TTU graduate student lead author; *** - TTU undergraduate lead author)

1. Morris, C., *Maccarone, T. J.*, Lucas, P. W., et al. 2022, *Monthly Notices of the Royal Astronomical Society* 514, 6002, "UGPS J194310+183851: an unusual optical and X-ray faint cataclysmic variable?"
2. Arur, K. & *Maccarone, T. J.* 2022, *Monthly Notices of the Royal Astronomical Society*, 514, 1720, "Using the bipsectrum to probe radio X-ray correlations in GRS 1915+105"
3. Tudor, V., Miller-Jones, J. C. A., Strader, J., et al. (including *Maccarone, T.J.*) 2022, *Monthly Notices of the Royal Astronomical Society*, 513, 3818, "The MAVERIC survey: a catalog of radio sources in the souther globular clusters from the Australia Telescope Compact Array"
4. Saikia, P., Russell, D. M., Baglio, M. C., (including *Maccarone, T.J.*)) 2022, *The Astrophysical Journal*, 932, 38, "A Multi-Wavelength Study of GRS 1716-249 in Outburst: Constraints on Its System Parameters"
5. Soria, R., Kolehmainen, M., Graham, A. W., et al. (including*Maccarone, T.J.*) 2022, *Monthly Notices of the Royal Astronomical Society*, 512, 3284. "A Chandra Virgo cluster survey of spiral galaxies - I. Introduction to the survey and a new ULX smaple"
6. Maccarone, T. J., Degenaar, N., Tetarenko, B. E., et al. (including *Maccarone, T.J.*) 2022, *Monthly Notices of the Royal Astronomical Society*, 512, 2365. "On the recurrence times of neutron star X-ray binary transients and the nature of the Galactic Centre quiescent X-ray binaries"
7. Mereghetti, S., La Palombara, N., Kupfer, T., et al. (including *Maccarone, T.J.*) 2022, *The Astrophysical Journal*, 931, 13, "X-ray Observation of the Roche-lobe-filling White Dwarf plus Hot Subdwarf system ZTF J213056.71+442046.5"
8. Yang, J., Wik, D. R., Lehmer, B. D., et al. (including *Maccarone, T.J.*) 2022, *The Astrophysical Journal*, 930, 64, "Young black Hole and Neutron Star Systems in the Nearby Star-forming Galaxy M33: The NuSTAR View"
9. Paduano, A., Bahramian, A., Miller-Jones, J. C. A., et al. (including *Maccarone, T.J.*) 2022, *Monthly Notices of the Royal Astronomical Society*, 510, 3658, "The MAVERIC survey: The first radio and X-ray limits on the detached black holes in NGC 3201"
10. Dage, K. C., Vowell, N., Thygesen, E., et al. (including *Maccarone, T.J.*) 2021, *Monthly Notices of the Royal Astronomical Society*, 508, 4008, "Ultraluminous X-ray sources in seven edge-on spiral galaxies"
11. **Pichardo Marcano, M., Rivera Sandoval, L. E., Maccarone, T. J., 2021, *Monthly Notices of the Royal Astronomical Society*, 508, 3275, "TACOS: TESS AM CVn Outbursts Survey"
12. Baldi, R. D., Williams, D. R. A., Beswick, R. J., et al. (including *Maccarone, T.J.*) 2021, *Monthly Notices of the Royal Astronomical Society*, 508, 2019, "LeMMINGs II: The e-MERLIN legacy survey of the Palomar smaple: exploring the origin of nuclear radio emission in active and inactive galaxies through the [O III]-radio connection"'
13. ***Masington, E., Maccarone, T. J., Sandoval, L. R., et al. 2021, *Journal of the American Association of Variable Star Observers*, 49, 149, "An Analysis of X-ray Hardness Ratios between Asynchronous and Non-asynchronous Polars"
14. Graham, A. W., Soria, R., Davis, B. L., et al. (including *Maccarone, T.J.*) 2021, *The Astrophysical Journal*, 923, 246, "Central X-ray Point Sources Found to Be Aaaaaaaaabundant in Low-mass, Late-type Galaxies Predicted to Contain an Intermediate-mass Black Hole"
15. Panurach, T., Strader, J., Bahramian, A., et al. (including *Maccarone, T.J.*) 2021, *The Astrophysical Journal*, 923, 88, "The MAVERIC Survey: Variable Jet-accretion Coupling in Luminous Accreting Neutron Stars in Galactic Globular Clusters"

16. van den Eijnden, J., Degenaar, N., Russell, T. D., et al. (including *Maccarone, T.J.*) 2021, *Monthly Notices of the Royal Astronomical Society*, 507, 3899, "A new radio census of neutron star X-ray binaries"
17. Nyland, K., Dong, D. Z., Patil, P., et al. (including *Maccarone, T.J.*) 2021, Astronomische Nachrichten, 342, 1146, "Powerful quasars with young jets in multi-epoch radio surveys"
18. Stoop M., van den Eijnden J., Degenaar N., Bahramian A., Swihart S.J., Strader J., Jimenez-Ibarra F., Muñoz-Darias T., Armas-Padilla M., Shaw A.W., *Maccarone T.J.*, Wijnands R., Russell R.D., Hernandez Santisteban J., Miller-Jones J.C.A., Russell D.M., Maitra D., Heinke C.O., Sivakoff G.R., Lewis F., Bramich D.M., "Multi-wavelength observations reveal a faint candidate black hole X-ray binary in IGR J17285-2922", 2021, *MNRAS*, 507, 330
19. Wetuski J., Hynes R.I., *Maccarone T.J.*, Heinke C., Torres M.A.P., jonker P.G., Britt C.T., Steeghs D., Nelemans G., "X-ray observations of two candidate symbiotic binaries in the galactic bulge", 2021, *MNRAS*, 506, 5619
20. Paduano A., Bahramian A., Miller-Jones J.C.A., Kawka A., Strader J., Chomiuk L., Heinke C.O., *Maccarone T.J.*, Britt C.T., Plotkin R.M., Shaw A.W., Shishkovsky L., Tremou E., tudor V., Sivakoff G.R.,"The MAVERIC Survey: Simultaneous Chandra and VLA observations of the transitional millisecond pulsar candidate NGC 6652B", 2021, *MNRAS*, 506, 4107
21. Belloni D., Schreiber M.R., Salaris M., *Maccarone T.J.*, Zorotovic M., "Magnetic dynamos in white dwarfs -I. Explaining the dearth of bright intermediate polars in globular clusters", 2021, *MNRAS*, 505, L74
22. Fratta M., Scaringi S., Drew J.E., Moguió M., Knigge C., *Maccarone T.J.*, Court J.M.C., Ilkiewicz K.A., Pala A.F., Gandhi P., Gänsicke B., 2021, *MNRAS*, 505, 1135
23. Rivera Sandoval L.E., *Maccarone T.J.*, Cavecchi Y., Britt C., Zurek D., "The outburst of a 60 min AM CVn reveals peculiar color evolution implications for outbursts in long-period double white dwarfs", 2021, *MNRAS*, 505, 215
24. Tetarenko A.J., Casella P., Miller-Jones J.C.A., Sivakoff G., Paice J.A., Vincentelli F.M., *Maccarone T.J.*, Gandhi P., Dhillon V.S., Marsh T.R., Russell T.D., Uttley P., "Measuring fundamental jet properties with multiwavelength fast timing of the black hole X-ray binary MAXI J1820+070", 2021, *MNRAS*. 504, 3862
25. Dage K.C., Kundu A., Thygesen E., Bahramian A., Haggard D., Irwin J., *Maccarone T.J.*, Nair S., Peacock M.B., Strader J., Zepf S.E., "Three ultraluminous X-ray sources hosted by globular clusters in NGC 1316", 2021, *MNRAS*, 504, 1545
26. *Maccarone T.J.*, "A Historical Perspective on the Diversity of Explanations for New Classes of Transient and Variable Stars", 2021, JAVSO, 49, 83
27. Zhao Y., Heinke C.O., Shishkovsky L., Strader J., Chomiuk L., *Maccarone T.J.*, Bahramian A., Sivakoff G.R., Miller-Jones J.C.A., Tremou E., "The MAVERIC survey: Dynamical Origin of Radio Sources in Globular Clusters", 2021, *The Astrophysical Journal'*, 914, 77
28. **Pichardo Marcano M., Rivera Sandoval L.E., *Maccarone T.J.*, Zhao Y., Heinke C.O., "A 2-d orbital period for a redback millisecond pulsar candidate in the globular cluster NGC 6397", 2021, *MNRAS*, 503, L51
29. Ilkiewicz K., Scaringi S., Court J.M.C., *Maccarone T.J.*, Altamirano C., Bradshaw C.W., Degenaar N., Fratta, M., Littlefield C., Shahbaz T., Wijnands R.,"Exploring the tiled accretion disc o AQ Men with TESS", 2021, *MNRAS*, 503, 4050
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320. Wijnands R., Kuulkers E., Muno M., Cackett E., in 't Zand J., *Maccarone T.*, Fender R., Grindlay J., Homan J., Rupen M., Cornelisse R., Miller-Jones J., van der Klis M., Markwardt C., Wang D., "Renewed activity of the very faint X-ray transient CXO GC J174535.5-290124 and continued activity of the neutron-star X-ray transient SAX J1747.0-2853," *Astronomer's Telegram*, 892

321. Gallo E., Tomsick J., Fender R., Tzioumis T., Sault R., *Maccarone T.*, Belloni T., "Follow-up radio and X-ray observations of 4U 1630-47," *Astronomer's Telegram*, 685

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Press releases

"Spitzer Reveals Jets Around a Dead Star," Linda Vu, for Spitzer Science Center Newsroom, based on Migliari et al. 2006 paper, and Spitzer data of which TJM was PI. Additional releases were made by the University of Southampton; University of California, San Diego; and the Radboud Universiteit.

"Black hole boldly goes where no black hole has gone before," press release on paper "A black hole in a globular cluster," issued by ESA, with additional press releases by the University of Southampton, Michigan State University and Wesleyan University. Story covered in original articles by UPI, BBC, Christian Science Monitor, Der Spiegel, Space.com and New Scientist, and carried by major media outlets in at least ten languages

"Most Black Holes Might Come in Only Small and Large," Jet Propulsion Laboratory press release related to the paper by Zepf, Stern, Maccarone et al. 2008 paper. Additional release made by Michigan State University. Reports appeared on BBC, Space.com, UPI, and many other media outlets.

"Extreme X-ray source supports new class of black hole," University of Leicester press releasted related to the Wiersema et al. 2010 paper. Reports appeared on the websites including those of the BBC, US News & World Report,UPI, La Repubblica, The Daily Mail.

"Black hole came from a shredded galaxy" press release issued by University of Sydney, NASA, Harvard-Smithsonian Center for Astrophysics, University of Leicester, and University of Southampton, related to Farrell et al. 2012 paper. Reports appeared in US, British, Australian, Indian, German, Spanish, Romanian, Polish and Hungarian media outlets.

Press releases related to "Two stellar-mass black holes in the globular cluster M22," issued by Michigan State University, the University of Southampton, the National Radio Astronomy University, and the Curtin University of Technology. Reports appeared in US, British, Australian, Indian, German, Spanish, Brazilian, Belgian, Lithuanian, Italian, Russian, Japanese, Korean, Ukrainian, Mexican, and Austrian media outlets.

NASA press release related to "NuSTAR and Chandra Insight into the Nature of the 3-40 keV Nuclear Emission in NGC 253". Reports appeared in US, British, French, Italian, Brazilian, Spanish, Chinese, Dutch, Japanese, Greek, Polish and Russian media outlets.

Texas Tech press release "Physicists Find Black Holes in Globular Star Clusters, Upsetting 40 Years of Theory" issued along with NRAO e-News coverage of both the M62 and M22 globular cluster black hole papers

Texas Tech press release "Unique SOS Signal from Pulled-Apart Star Points to Medium-Sized Black Hole" on unusual transient in M86

Wide-spread media coverage, including NASA press release "NASA's NuSTAR Telescope Discovers Shockingly Bright Dead Star", on discovery that M82 X-2 is an accreting pulsar

Texas Tech press release "New Paper Shines Light on Little-Understood Process in Astronomy", related to Scaringi et al. 2015 paper in *Science Advances*. Picked up on a number of science web sites, as well as the Huffington Post science section

Texas Tech press release, "Texas Tech Physicist Contributed to Discovery of Unnoticed Black Hole", issued June 27, 2016

Texas Tech press release, "Team Led by Texas Tech Physicists Discovers Loneliest Young Star", issued July 27, 2016

Op-ed piece in Austin American-Statesman, "Moon landing launched 50 years of discovery", July 19,2020

Media appearances Several brief segments on BBC Radio Solent Mid-morning show with Jon Cuthill to discuss Southampton Science Café presentations: 2008-9

KTXT radio appearance as first of a series of College of Arts and Sciences presentations on research, on M82 X-2 result

KTTZ television interview on M82 X-2 result

Videos made to accompany both press releases from summer 2016

Roughly 1-2 local television appearances per year over past 5 years to discuss science news and science results

ACCEPTED GRANT PROPOSALS

Grants at Texas Tech Approximately $150,000/year in external funding since 2013, typically 2-4 successful proposals per year

Astronomy/astrophysics colloquia

University of Amsterdam, November 2002
University of Utrecht, November 2002
MIT, December 2002
Michigan State University, September 2003
University of Durham (UK), December 2003
University of Florida, March 2004
University of Southampton (UK), November 2004
Radboud University, Nijmegen, The Netherlands, March 2005
ASTRON, Dwingleoo, The Netherlands, March 2005
SRON/University of Utrecht combined colloquium, Utrecht, The Netherlands, June 2005
University of Leicester, October 2005
Imperial College, November 2005
University of Birmingham, November 2005
University of Sussex, March 2006
Oxford University, April 2007
Open University, May 2007
University of Florida, November 2007
Keele University, January 2008
University of Warwick, June 2008
Mullard Space Sciences Laboratory, University College London, June 2008
University of Leeds, October 2008
Space Research Organization of the Netherlands, Utrecht, February 2009
Radboud University, February 2009
Centre d'Étude Spatiale des Rayonnements, Toulouse, France, July 2009
University of Leicester, February 2010
Queen's Universty, Belfast, May 2010
Indiana University, September 2010
University of Durham, December 2010
Institute for Cosmology and Gravitation, University of Portsmouth, February 2011
University of Amsterdam, February 2011
University of Birmingham, December 2011
University of Bristol, January 2012
Rome Observatory, April 2012
Michigan State University, August 2012
Louisiana State University, January 2013
Universidad Nacional Autonomoso de Mexico, April 2013
Astrophysics Institute of the Canary Islands, July 2013
University of Wisconson-Milwaukee, September 2013
Rice University, November 2014
Michigan State University, December 2014
Purdue University, December 2014
University of Texas, September 2015
Texas A&M University, October 2015
University of Western Australia, January 2016
Curtin University, January 2016
National Radio Astronomy Observatory, February 2016
University of Florida, September 2016
University of Wisconsin, November 2018
University of Concepcion (Chile), August 2022, online colloquium

Other seminars

High Energy Astrophysics Division, Harvard-Smithsonian Center for Astrophysics, December 2002
Theoretical Astrophysics group, Northwestern University, September 2003
High Energy Astrophysics group, Max Planck Institute for Astrophysics, October 2003
General relativity group, School of Mathematics, University of Southampton, October 2006
Lunchtime seminar, Institute of Astronomy, Cambridge University, August 2006
Physics department colloquium, West Virginia University, April 2007
Physics department colloquium, Georgia Institute of Technology, Februrary 2008
Astronomy department Thursday seminar, Columbia University, September 2008
Leader of two discussions at KITP program on "Formation and Evolution of Globular Clusters", March & April 2009 – one on black holes in globular clusters and one as a report on the "Intermediate Mass Black Holes" conference held in Irvine in April 2009
Physics and astronomy department colloquium, University of Alabama, April 2009
Theoretical astrophysics group, Northwestern University, September 2010
Physics department colloquium, Texas Tech University, September 2012
Physics department colloquium, Texas A&M University-Commerce, January 2013
Physics department colloquium, Trinity University, September 2013
Physics department colloquium, Austin College, October 2014
Physics department colloquium, University of Texas-San Antonio, October 2014
Physics department, College of Charleston, scheduled, October 2015
Physics department, University of Texas at Dallas, February 2016
Physics department, University of North Texas, February 2017
Physics department, University of Canterbury (NZ), June 2017
Department of Physics & Astronomy, Louisiana State University, April 2018
Department of Physics, Angelo State University, February 2019
Department of Physics, University of Nevada-Reno, December 2019
T-division, Los Alamos National Laboratory, November 2019
Department of Physics, Washington University, March 2020, cancelled due to COVID-19
Department of Physics & Astronomy, University of New Mexico, October 2021
NASA Goddard Space Flight Center Astrophysics Laboratory, February 2022
Cosmology and Gravitation seminar, University of Illinois (given online), March, 2022
Department of Physics, Howard University, April 2022

Invited Conference Talks and Related Presentations

Globular Clusters: Formation, Evolution and the Role of Compact Objects, January 2003, KITP, Santa Barbara, California: "LMXBs in Early-Type Galaxies"
Science with 5@5, November 2003, Ringberg Castle, Ringberg, Germany: "The Disk-Jet Connection in Microquasars, and When We Should Look with γ-ray Telescopes"
MODEST-6 (Modelling Dense Stellar Systems), August 2005, Evanston, Illinois: "X-ray Sources in Extragalactic Globular Clusters"
IAU General Assembly, Joint Discussion 6, August 2006, Prague, Czech Republic: "X-ray Source - Globular Cluster Association in Elliptical Galaxies"
RS Ophiuchi (2006), June 2007, Keele, UK: "Stellar Jets"
Kinetic Modeling of Astrophysical Plasmas, October 2008, Krakow, Poland: "Observations of jets from X-ray binaries"
Formation and evolution of globular clusters, January 2009, Santa Barbara, CA, USA: "Observational evidence for black holes in globular clusters"
The EVLA Vision: Stars on and off the main sequence, May 2009, Socorro, New Mexico, USA: "Compact binaries and related objects"
American Astronomical Society Meeting, June 2009, Pasadena, CA, USA, member of panel to discuss uses of WIYN One Degree Imager, representing the community outside WIYN institutions
High Energy View of Accreting Objects: AGN and X-ray Binaries, Agios Nikolaos, Greece, October 2010: "Globular cluster X-ray sources"
The Future of Gamma-ray Astronomy and the CTA, Leicester, October 2010: "Non-thermal emission from X-ray binaries"
12 Years of Chandra, meeting-in-a-meeting at summer American Astronomical Society meeting, Boston, May 2011: "Compact Object Formation in Globular Clusters, the Milky Way and External Galaxies"
Optical/IR Galactic Plane Surveys Meeting including The 2nd VVV Science Meeting, Hatfield, UK, July 2011: "High energy and radio complements to the VVV" (solicited)
The formation and evolution of intermediate mass black holes: the case of HLX-1 in ESO 243-49, Toulouse, France, September 2011: "Intermediate mass black holes in globular clusters: formation scenarios and detection techniques" (solicited)
The Extreme and Variable High Energy Sky, Chia Laguna, Italy, September 2011: invited review talk on "Jets from Galactic Binaries", and conference summary talk at the same meeting
Compact Binaries in Globular Clusters, keynote talk on "Ultraluminous sources in globular clusters", Lorentz Center meeting in Leiden, September 2012
Second LOFT Science Meeting, "Observatory Science", Toulouse, September 2012
The Physics of Accretion onto Black Holes, workshop at International Space Sciences Institute, two invited talks, one on "Observational Tests of the Picture" and the "Overview and Outlook" talk to end the meeting
Black Holes in Globular Clusters: An Overview, American Astronomical Society High Energy Astrophysics Division meeting, Monterey, CA, April 2013, overview talk
"The emission mechanisms in black hole X-ray binaries: the soft gamma-ray contribution to the picture", at *INTEGRAL's journey through the high energy sky*, October 2013, Rome
"Proper motions of supergiant fast X-ray transients: a key to their origins and implications", 40th COSPAR Scientific Assembly, Moscow, 2-10 August, 2014
"Accretion states", at The Physics of Cataclysmic and Compact Binaries, November 1, 2014, New York (participation in workshop was solicited)
"Cosmological implications of massive binaries", at the Lorentz Center meeting "Massive binaries and their implications", June 2015, Leiden
"Far-future missions", at the Lorentz Center meeting "Paving the way to simultaneous multi-wavelength astronomy", July 2015, Leiden
"Radio and X-ray fingerprints of Intermediate Mass Black Holes", at "Star Clusters as Cosmic Laboratories for Astrophysics, Dynamics and Fundamental Physics", April 2016, Bologna
"Accretion Disk Structure", at "Stellar Remnants at the Junction: Comparing Accreting White

Dwarfs, Neutron Stars and Black Holes", May 2016, Junction TX
"Jets and bursts", at ISSI Workshop on "Accretion Disks and corona in the X-ray Flashlight", June 2016, Beijing
"Black Hole X-ray Binaries", at "Istanbul accretion workshop", August, 2017
"Ultracompact binaries" at LISA workshop at HEAD meeting, Sun Valley, ID, August, 2017
"Ultracompact binaries", American Physical Society Meeting, Columbus, OH, April 2018
"Nonlinear Times Series Techniques", Committee on Space Research (COSPAR) meeting, July 2018
"Imaging Stars and Stellar Winds", ngVLA Long Baseline Meeting, Atlanta, GA, October 2018
"The ngVLA Long Baseline Array", US National Radio Science Meeting, Boulder, CO, January 2019
"Accreting Neutron Stars in Globular Clusters", CIERA Pulsar Workshop, Northwestern University, Evanston, IL, May 2019
"Galactic Compact Objects and Radio Transients", Long Wavelength Array Users' Meeting, Albuquerque, NM, August 2019
"Black Hole X-ray Binaries" at Mapping the X-ray Sky with SRG:First results from eROSITA and ART-XC, March 2020, Garching, Germany, cancelled due to COVID
"Intermediate Mass Black Holes, To Be or Not To Be", European Southern Observatory youtube-live-based "Cosmic Duologue" with Marta Volonteri, moderated by Maria Diaz Trigo, May 11, 2020, watched live by about 280 people
"The Sharpest View of Neutron Stars and Black Holes", ngVLA Summer Short Talk Series, June 2020, first talk in a multi-year series
"Populations of Black Holes", June 2021, European Astronomical Society session on Birth, Life and Death of Black Holes
"Galactic Radio Surveys", Long Wavelength Array Users' Meeting, Albuquerque, NM, August 2021
"Lags and Reverberation in X-ray Binaries", Microquasar 2021, hybrid meeting, hosted from Cagliari, Italy, September 2021
"eXTP in the new astrophysics landscape", Timing X-ray Binaries: On the Road to eXTP, online workshop, hosted by Sabanci University, Istanbul, Octobero 2021
"Accretion in Black Hole X-ray Binaries", American Physical Society Spring Meeting, New York, NY, April 2022
"Science with VLBI: the key to fundamental physics and fundamental astrophysics",lecture at the National Radio Astronomy Observatory interferometry school, May 2022 (online event)
"Understanding the formation and evolution of the first discovered stellar mass black hole", Society of Astronomical Sciences, May 2022, Ontario, California, given online
"Counterjets" at a workshop at the College of Charleston in honor of the 62 birthday of Omer Blaes and 52nd birthday of Chris Fragile, August 2022
"STROBE-X" at a workshop at the College of Charleston in honor of the 62 birthday of Omer Blaes and 52nd birthday of Chris Fragile, August 2022
"Galactic Transients and Variables" CMB-S4 Collaboration Meeting, August 2022

Lecturing positions at specialized schools

2nd Fudan Winter School on Black Holes, 5 lectures given on "Black Hole Binaries", Fudan University, Shanghai, January 2017