

C. Megan Urry

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RESEARCH INTERESTS: Evolution of black holes and galaxies, multiwavelength surveys, black hole accretion, jets, unification of active galactic nuclei, blazars

KEY SCIENCE ACHIEVEMENTS:

- Unification of radio-loud AGN, one of the most highly cited review papers in astronomy and astrophysics.
- Established blazars as aligned, beamed, relativistic jets, used variability and SED analysis to probe the physics of relativistic jets and the demographics of blazars.
- Developed formalism for impact of relativistic beaming on luminosity functions, established radio galaxies as parent population of blazars.
- Quantified black hole growth over past 12 billion years, established that roughly $\frac{3}{4}$ of accretion is obscured, based on designing GOODS, Stripe 82X and other multiwavelength surveys.
- First to establish AGN host galaxies mostly disk-dominated, thus unlikely to be merger-triggered. About 15% merger-triggered locally, rises to $\sim 40\%$ at $z \sim 1$.

EDUCATION

Johns Hopkins University
Tufts University

Ph.D., Physics, 1984, M.S., Physics, 1979
B.S., Physics & Mathematics, 1977 *summa cum laude*

PROFESSIONAL POSITIONS HELD

2001-present Yale University: Israel Munson Professor of Physics & Astronomy; Director, Yale Center for Astronomy and Astrophysics
2007-2013 Yale University: Chair, Department of Physics
1987-2001 Space Telescope Science Institute: Astronomer and Head, Science Program Selection Office (1996-2001); Associate Astronomer with tenure (1995-1999); Assistant Astronomer and Chief, Research Support Branch (1990-1995); Institute Postdoctoral Fellow (1987-1990)
1984-1987 Massachusetts Institute of Technology, Center for Space Research, Postdoctoral Fellow (with Claude Canizares)
1977-1984 Johns Hopkins University Graduate Student, Physics Department; NASA Graduate Research Fellow, X-ray group, Goddard Space Flight Center; Physics Instructor, University of Maryland Overseas College (1979); Teaching Assistant and Senior TA for General Physics
1977 Scientific data aide, X-ray group, Smithsonian Astrophysical Observatory
1976 Summer student, National Radio Astronomy Observatory

PUBLICATIONS (see bibliography for details)

H-index 83, 2000+ citations per year, over 330 publications in refereed journals (Astrophysical Journal, Astrophysical Journal Letters, Astrophysical Journal Supplement, Nature, Science, Annual Reviews of Astronomy & Astrophysics, Monthly Notices of the Royal Astronomical Society, Astronomy & Astrophysics, Publications of the Astronomical Society of Japan, Advances in Space Research, Astroparticle Physics)
39 book chapters and invited review papers, 3 books edited
Over 530 abstracts and contributed papers
Over 370 colloquia and invited talks, including 150 talks and papers on women in science
Over 50 articles in the popular press (Parade magazine, CNN.com, Huffington Post)
20 American Astronomical Society Presidential Columns

RECENT STUDENTS AND POSTDOCTORAL FELLOWS SUPERVISED

Current Postdocs: Mislav Balokovic, Michael Tremmel, Vivienne Baldassare

Former Postdocs: Fabio Pacucci, Allison Kirkpatrick, Nico Cappelluti, Grant Tremblay, Francesca Civano, Stephanie LaMassa, Eilat Glikman, Kevin Schawinski, Erin Bonning, Ritaban Chatterjee, Yasunobu

Uchiyama, Eleni Chatzichristou, Riccardo Scarpa, Joe Pesce, Rita Sambruna, Elena Pian, Paola Grandi, Paolo Padovani

Current and former YCAA Postdocs: Rachael Roettenbacher, Michael Tremmel, Allison Kirkpatrick, Nico Cappelluti, Andrew Hearin, Pascal Oesch, Jonathan Foster, Stella Offner, Nikku Madhusudhan, Megan Schwamb, Nitya Kallivayalil, Jason Tumlinson, Kyoungsoo Lee, Eric Gawiser, Ken Rines, Nick Morgan

Current graduate students: Chuan Tian, Aritra Ghosh, Anne Burnham

Former graduate students: Kaustav Mitra, Tonima Tasnim Ananna, Meredith C. Powell, Peiyuan Mao, Jedidah Isler, Brooke Simmons, Carie Cardamone, Jeffrey van Duyne, Ben Elder, Shanil Virani, Ezequiel Treister, Jong-Hak Woo, Zachary Harris, Matthew O'Dowd, Rita Sambruna, Elena Pian, Paola Grandi, Amanda Marlowe (Subba Rao)

Senior theses/projects: (2020) Brian Dolan, Amrit Rau; (2019) Gabriel Mininberg; (2018) Vicki Beizer, Pratik Ghandi; (2017) Joyce Guo; (2015) Anna Han, Connor Hoge; (2012) Margaret Lazzarini; (2011) James Kim; (2009) Elissa Berwick, Taylor Giffen, Allison Kaptur, Severin Knudsen; (2008) Lara Cury, Bronika Kushkuley; (2007) Hannah Krug, Justin Presant, Alex Richardson; (2006) Tim Brandt, Zach Dennett; (2005) Brendan Cohen; (2004) Alison Duffy, Rob Hyde; (2003) Karen Peterson; (2002) Olivia Billett, Belina Mizrahi

Summer students: (2020) Georgia Michelman, Amrit Rau, Tristan Weaver; (2019) Sarah Bowers, Cassidy Kollmann, Ryan Ofman, Nicolas Potteiger, Matthew Wang, Tristan Weaver; (2018) Mariam Abalo-Toga, Katy Ann Carr, Justin Johnson, Emma Longhurst, Emmaneul Newsome; (2017) Kurt Hamblin, Victoria Song; (2016) Zoe Aridor, Rachel Cooper, Keilah Davis, Dominic Eggerman, Joyce Guo, Nat Kerman; (2015) Dominic Eggerman, Nat Kerman, Sydney Young; (2014) Matthew Brady, Mark Hamilton, Connor Hoge, Mari Kawakatsu, Kate Miller, Field Rogers, Sonya Vohra; (2013) Brooke Lamell, Nailen Matschke, Robert Pecoraro, Alec Solder; (2012) Arifin, Miranda Kephart, Anna Han, Michael Albergo, Hunter Francis, Lily Hoffman, Nailen Matschke; (2011), Roger Lo, Will Vranos, Lucian Wang; (2010) Jenna Freudenberg, Henry Wilkin, Matt Caraway, Nick Ferreri, Claire Stepanek, Lucian Wang; (2008) Elissa Berwick, Michele Dufault, Severin Knudsen, Laura Kreidberg; (2006) Lara Cury, Kevin Greene, Allison Kaptur, Antonella Lisanti; (2004) Ruth Toner; (2003) Tim Brandt, Santanov Chaudhuri, Philip Levin, David Moore; (2002) Meredith Hughes; (STScI) Chiharu Tanihata, Teddy Cheung, Jessica Kim, Abby Paske, Laura Wickless; (MIT) Jennifer Sokoloski, Christopher Papineau, Marilyn Oberhardt, Michael Rohan

TEACHING

Yale Physics 040 *Expanding Ideas of Time and Space: An Introduction to Relativity, Cosmology & the Universe (course development)*

Yale Physics 200-201 *Fundamentals of Physics (Study Hall)*

Yale Physics 180-181 *Advanced Introductory Physics (interactive, peer learning, with clickers, course creation)*

Yale Science 198-199 *Perspectives on Science and Engineering (freshman seminar)*

Yale Physics 205, 206, 165 *Introductory Labs*

Yale Physics 343 *Astrophysics, Gravity, and Cosmology (course creation)*

Yale Physics 471-472 *Independent Research*

Yale Physics 999 *Special Investigations (Graduate Lab)*

Prior to Yale: MIT 8.01 *Introductory Physics (Recitation section)*; University of Maryland Overseas College *Introductory Physics*; Johns Hopkins *Introductory Physics (Recitation sections, Head Teaching Assistant)*

AWARDS AND HONORS

Johns Hopkins University Society of Scholars, April 2019

Connecticut Academy of Science and Engineering, Invited Keynote, Annual Dinner, May 2019

Rorschach Lecture, Rice University, October 2018

Howard R. Lamar Faculty Award, Yale University, April 2018

Distinguished Lecture, University of Maryland, Baltimore County, November 2017

Elizabeth Laird Lecture, University of Western Ontario, November 2017

National Academy of Sciences, 2016

Yunker Lecture, Oregon State University 2016

McCarthy Lecture, Tufts University 2016

WiSETI/Schlumberger Lecture, Cambridge University 2016

Hintze Lecture, Oxford University 2015

Caroline Herschel Lecture, Space Telescope Science Institute 2015
Edward A. Bouchet Leadership Award Medal from Yale University 2015
Antoinette de Vaucouleurs Medal, University of Texas, Austin 2014
Russell Women in Science Lecture, Mills College 2014
Sturm Lecture, Wesleyan University 2014
American Association for the Advancement of Science Fellow 2013
Van Biesbroeck Prize, American Astronomical Society 2012
Woman in Space Science Award, Adler Planetarium 2010
Honorary Degree of Science, Tufts University 2009
American Academy of Arts and Sciences Fellow 2008
Connecticut Academy of Science & Engineering Fellow 2007
Association of Women in Science Fellow 2006
American Physical Society Fellow 1999
NASA/GSFC Productivity Group Award 1996
Annie Jump Cannon Award in Astronomy 1990
N. Hobbs Knight Award for Physics, Tufts University 1976, 1977
Phi Beta Kappa 1976

MEMBERSHIPS

American Academy of Arts and Sciences
American Association for the Advancement of Science
American Association of University Women
American Astronomical Society (HEAD Division Member)
American Physical Society, Fellow (Division of Astrophysics Member)
American Women in Science (Fellow)
Connecticut Academy of Science and Engineering
International Astronomical Union
National Academy of Sciences

SCIENCE POLICY COMMITTEES

Astro2020 Decadal Survey, Panel on Electromagnetic Observations from Space 2019-present
American Geophysical Union/National Center for Professional and Research Ethics Advisory Group 2019-present
Sloan Digital Sky Survey V, Advisory Council (and Executive Committee), 2018-present
American Astronomical Society Appointments Committee, 2018-present
National Academy of Sciences Nominating Committee, 2017-present
National Academy of Sciences Astronomy Section Search Committee, 2020
National Academy of Sciences Space Technology Roundtable, 2017-present
US National Committee for the International Astronomical Union, 2016-present
COACH for Women Scientists and Engineers Advisory Board, 2016-present
NASA Far-IR Study Advisory Board, 2016-2019
Sloan Digital Sky Survey III, IV, Advisory Council, 2011-2014
American Astronomical Society Council President 2013-2017, Councilor 2008-2011
NASA Science Advisory Committee, Member 2012-2014
US Liaison Committee for the International Union of Pure and Applied Physics, Member-at-Large,
2012-2014
American Physical Society, Public Policy Committee, 2011-2014
American Association of Universities, NASA Presidential Working Group, 2007-2014
American Association for the Advancement of Science, Astronomy Section Head, 2010-2012
American Astronomical Society, Committee on Public Policy 2006-2011
American Astronomical Society Council (& Appointments Committee), 2008-2011
Space Telescope Science Institute Committee on Diversity (Chair 2007-2009), 2007-2010

Astro2010 (Astronomy and Astrophysics Decadal Survey) Science Frontier Panel Chair (“Galaxies Across Cosmic Time”), 2009-2010
 Gemini Telescopes Board Member, 2008-2009
 National Academies of Science/National Research Council Committee on Astronomy and Astrophysics, Co-Chair 2004-2007
 National Academies of Science/National Research Council Board on Physics & Astronomy 2003-2007
 National Academies of Science/National Research Council Ad Hoc Committee to Assess Progress toward the Decadal Vision in Astronomy and Astrophysics, Chair 2004-2005
 National Academies of Science/National Research Council Space Studies Board 2000-2004; Executive Committee 2001, 2003
 National Virtual Observatory Science Definition Team 2001
 NASA Space Science Advisory Committee 1997-2000
 NASA Space Science Advisory Committee Task Group on Mission Operations and Data Analysis 1998
 American Astronomical Society Committee on the Status of Women in Astronomy Chair, 2000-2003; 1998-2000, 1994-1996
 American Physical Society Committee on the Status of Women in Physics (CSWP) 2000-2002
 American Physical Society Astrophysics Division Executive Committee 1995-1997 & 1999-2001
 AGILE (Italian Gamma-Ray Satellite) Science Support Team 1998
 American Astronomical Society Nominating Committee 1996-1998 & 2001-2004 (Chair 1997-1998)
 Maria Mitchell Award Advisory Committee 1997-1998
 National Academies of Science/National Research Council Task Group on Space Astronomy and Astrophysics 1996
 NASA Advisory Committees

OVERSIGHT COMMITTEES AND PEER REVIEW PANELS

Russell Prize Committee, American Astronomical Society
 University of Utah Physics and Astronomy Graduate Education Advisory Board (for NSF RAPID grant) 2020-present
 National Academy of Sciences Selection Committee for the 2020 James Craig Watson Medal for Astronomy
 Massachusetts Institute of Technology Visiting Committee for Earth, Atmospheric and Planetary Sciences, 2019-2022
 Columbia Astrophysics Laboratory Visiting Committee, 2019
 Scientific American Board of Advisors, 2018-present
 Max-Planck-Institut für Astronomie Heidelberg, Science Advisory Board, 2018-present
 Institute of Cosmos Sciences of the University of Barcelona, International Advisory Council, 2018-present
 Carnegie Institution of Washington Scientific Advisory Council, 2018-present
 International Advisory Board for the Australian Research Centre for Excellence in All-Sky Astrophysics in 3 Dimensions, 2018-present
 Eidgenössische Technische Hochschule Zurich Physics Department external advisor, 2018-present
 Associated Universities, Inc., Board Member, 2017-present; Member, Audit Committee; Member, Governing Committee (Chair in 2020)
 National Academy of Sciences Selection Committee for the 2019 NAS Award for Scientific Reviewing (Chair), 2018-2019
 University of Maryland Astronomy Visiting Committee, 2017
 Niels Bohr Institute Visiting Committee (Chair), University of Denmark, 2015
 California Institute of Technology Physics, Mathematics and Astronomy Visiting Committee, 2013
 Japan Aerospace Exploration Agency, External Evaluation Committee of ISAS (Co-Chair), 2012
 Argonne National Laboratory CSWP Visiting Committee (Chair), 2012
 Harvard University Physics Visiting Committee (Chair, 2015), 2011-2015
 ASTRON (Netherlands Radio Astronomy) Visiting Committee, 2011
 Harvard University Astronomy Visiting Committee, 2011
 Chandra Time Allocation Committee (Chair), 2010
 Massachusetts Institute of Technology APS/CSWP Site Visit Committee (Chair), 2009

Radcliffe Science Advisory Committee, 2007-2009
Hubble Space Telescope Proposal Review Time Allocation Committee (Chair), 2007
Spitzer Space Telescope Time Allocation Committee (Chair), 2006
University of Michigan APS/CSWP Site Visit Committee (Chair), 2005
Chandra Fellowship Review Committees (Chair), 2005
University of Wisconsin APS/CSWP Site Visit Committee, 2002
Peer Review Panels for NASA facilities (Chandra, Hubble, Spitzer, RXTE, ASCA, IUE)

YALE COMMITTEES

Faculty Liaison for Astronomy Department Diversity, Equity, and Inclusion Journal Club
Physics Department Qualifying Exam Task Force 2020
Faculty Senator 2020-2023, Executive Committee 2020-2021
Yale Center for Astronomy & Astrophysics Postdoctoral Search Committee Chair, 2019-2020
Conference for Undergraduate Women in Physics (CUWiP) Faculty Advisor, 2019-2020
Physics Department Committee for 3rd Year Review of Prof. Laura Newburgh (Chair), 2019
Physics Department Committee on Prize Lectures, 2019
Science Council, 2015-present (2017-2019, Chair)
Physics Department Climate and Diversity Committee, 2018-present
Public Voices Fellowship, 2011-2018 (2017-2018, co-lead)
Physics Department Committee on Special Opportunities, 2017-2018
Advisor to Yale Chapter of Association of Women in Science, 2016-present
Michelle Dufault Fund for Yale Women in Science Committee, 2016-present
Poynter Journalist Committee, 2015-present
Committee on Undergraduate Physics Education, 2014-present
Yale Center for Astronomy & Astrophysics Postdoctoral Search Committee 2002-present
Jonathan Edwards College Freshman Advisor, 2002-present
Pre-College Science Outreach Steering Committee, 2011-2018
Women Faculty Forum Council 2001-present, Steering 2002-present, Co-Chair 2007-2008
Silliman Lectureship Committee, 2015-2017, 2011-2012
Conflict of Interest Committee, 2015-2016
FAS Senate Implementation Committee, 2014-2015
Yale group to review STEM Teaching, 2011-2014
Postdoctoral Advisory Committee, 2011-2013
Committee to Review the Yale-Peking University Cooperative Program 2008-2009
Committee to Recommend New Master of Jonathan Edwards College Chair, 2007-2008
Faculty Arts & Sciences Tenure and Appointments Policy Review Committee 2005-2007
Tenure Appointments Comm., Division of Physical Sciences and Engineering 2003-2007
Advisory Committee of the Division of Physical Sciences and Engineering 2003-2007
University Budget Committee 2004-2006
Yale University Advisory Council of the Yale-New Haven Teachers Institute 2003-2008
Department of Physics Astrophysics Search Committee Chair, 2003-2008, 2006-2007 Department of
Physics Particle Experiment Search Committee 2005-2006
Physics Laboratory Demonstration Committee 2004-2005
Physics Appointments Review Committees
Marie Curie Centennial Symposium on Women in Science Organizing Committee 2002-2003
Physics Long-Range Planning Committee 2002-2003
Physics Committee on Undergraduate Physics 2001-2003

OTHER SERVICE ACTIVITIES

President, American Astronomical Society, 2013-2017
Editor of STATUS (CSWA Newsletter) 1998-2005, Contributing editor 2005-present

Team Lead, U.S. Delegation, 1st & 4th IUPAP Intl. Conf. on Women in Physics, Paris 2002, Cape Town 2011
Advisory Committee, Astronomical Society of the Pacific Conference Series 1999-2000
Publications Board, Astronomical Society of the Pacific 1997-1999
Proposal Review for NSF, NASA, International Research Councils
Manuscript Review for Nature, ApJ, ApJ Letters, AJ, A&A, MNRAS, Pub. Astr. Soc. Japan
Member, Scientific Organizing Committees (~40 conferences 1998-present)
Public Talks (5-10 times per year)