

CURRICULUM VITAE

January 10, 2026

TIMOTHY M. HECKMAN

PERSONAL

Born: October 11, 1951 in Toledo, Ohio

Wife: Joanne Orsini Heckman

Children: David and Kit Heckman

EDUCATION

Ph.D. in Astronomy from the University of Washington in October 1978

Thesis: “An Optical and Radio Survey of the Nuclei of Bright Galaxies”

Advisor: Prof. Bruce Balick

B.A., Magna cum Laude, in Astronomy from Harvard College in June 1973

Honors Thesis: “Population Synthesis Applied to Eight Young Globular Clusters in the Magellanic Clouds”

Advisor: Prof. John Danziger

PROFESSIONAL POSITIONS

January 2024 – present: Professor, School of Earth & Space Exploration, Arizona State University

March 2011 – present: The A. Hermann Pfund Professor, Department of Physics & Astronomy, The Johns Hopkins University

January 2022 – June 30, 2022: The Henry A. Rowland Chair, the William H. Miller III Department of Physics & Astronomy, Johns Hopkins University

July 2015 – December 2021: Chair of the Department of Physics & Astronomy, Johns Hopkins University

January 1989 – February 2011: Professor, Department of Physics & Astronomy, The Johns Hopkins University

June 2002 – June 2015: Director, Center for Astrophysical Sciences, The Johns Hopkins University

January 1989 – June 1994: Astronomer, The Space Telescope Science Institute

June 1985 – December 1988: Associate Professor, The Astronomy Program, University of Maryland

January 1982 – June 1985: Assistant Professor, The Astronomy Program, University of Maryland

September 1980 – January 1982: Bart Bok Fellow, Steward Observatory, University of Arizona

November 1978 – September 1980: Postdoctoral Fellow, Leiden Observatory

AWARDS & HONORS

1969-1973: National Merit Scholarship to Harvard College
1984-1986: Alfred P. Sloan Fellowship
2002: Sackler Distinguished Lectureship (Leiden)
2009: SACIRR Distinguished Lectureship: Edinburgh
2011: Named the A. Hermann Pfund Professor at The Johns Hopkins University
2013: Elected as a Fellow of the American Academy of Arts & Sciences
2013-15: Named by Thomas Reuters as a one of “The World’s Most Influential Scientific Minds”
2015: Named Overseas Fellow of Churchill College, University of Cambridge
2015: Named Sackler Distinguished Visitor at the University of Cambridge
2016: Named “Highly Cited Researcher” by Web of Universities
2016: Elected as Member of the National Academy of Sciences
2018: Recipient of the Catherine Wolfe Bruce Gold Medal of the Astronomical Society of the Pacific
2018: Selected as The Marker Lecturer at Pennsylvania State University
2019: Elected to Sigma Xi
2020: Selected for Plenary Prize Lecture by the American Astronomical Society
2020: Elected Fellow, the American Association for the Advancement of Science
2022: MAPS Visiting Fellowship, University College London
2023: Named “Highly Cited Researcher” by Web of Universities

PROFESSIONAL MEMBERSHIP

American Academy of Arts and Sciences
American Association for the Advancement of Science
American Astronomical Society
American Physical Society
Astronomical Society of the Pacific
International Astronomical Union
National Academy of Sciences
Sigma Xi

SERVICE

2025 – present: Member, AURA Board
2025: Moderator, ad hoc advisory meeting on astronomical instrumentation, Kavli Foundation
2023: Member, STScI Director Search Committee
2015 - 2022: Chair, Department of Physics & Astronomy, Johns Hopkins
2002 – 2015: Director, Center for Astrophysical Sciences, Johns Hopkins
2002 – 2025: Member, Executive Committee, Department of Physics & Astronomy, Johns Hopkins

2019 - 2021: Chair, Program Panel on Optical and Infrared Astronomy from the Ground, National Academy of Sciences, 2020 decadal survey in astronomy and astrophysics “Pathways to Discovery”

2019: Member, AURA STScI Director Review Committee

2019 - 2025: Member, Astronomy Nominations Committee, National Academy of Sciences

2019: Member of external review of the Columbia University Astrophysics Lab

2017 - 2020: Member, Board on Physics and Astronomy, National Academy of Sciences

2017-2018: Member US National Committee for the IAU, National Academy of Sciences

2014 - 2017: Member, AURA Space Telescope Institute Council

2015 -2016: Member Nominating Committee for the American Academy of Arts & Sciences, Section of Astronomy and Earth Sciences

2014: Member, Internal Review Committee, Dept. of Earth & Planetary Sciences, Johns Hopkins

2014: Member National Academy of Sciences committee on WFIRST/AFTA

2012 – 2017: General Member, Aspen Center for Physics

2011 - 2016: Member, Committee on Astronomy & Astrophysics, National Academy of Sciences

2011 - Present: Member, Subaru Prime Focus Spectrograph Steering Committee

2011: Member, Visiting Committee, Department of Astronomy, Harvard Univ.

2011 – 2014: Vice Chair, AURA Board

2010 - 2011: Member, AURA Gemini Director Review Committee

2010 - 2013: Member, AURA Nominating Committee

2009 - 2010: Member, Search Committee, Dean of Krieger School of Arts & Sciences, Johns Hopkins

2010 – 2012: Member, LSST Board

2009 – 2017: Member, JWST Science Advisory Committee

2008 – 2010: Member, National Academy of Sciences “New Worlds, New Horizons” decadal survey steering committee

2008 – 2014: Member, AURA Board

2006 – 2017: Chair, Pan-STARRS1 Science Consortium Board

2007 – 2012: Member, NRAO Visiting Committee

2007 – 2009: Member, ALMA North American Science Advisory Committee

1994 - 2017: AURA Member Representative

1992 – 2017: Member, ARC Board of Governors

1992 – 2017: Member, SDSS Advisory Council

2007 – 2008: Member, AURA GSMT Science Working Group

2007: Co-Chair, Review of Graduate Program in Astrophysics at the Rochester Institute of Technology

2005: Member, NASA Structure & Evolution of the Universe Roadmap Team

2005: Member, AURA STScI Director Search Committee

2004 – 2007: Member, National Academy of Sciences, Committee on Astronomy & Astrophysics

2003 – 2006: Member, NASA Structure & Evolution of the Universe Sub-Committee
2001 – 2007: Member, AURA Space Telescope Institute Council
2001: Member, AURA Nominating Committee
2000: Chair, Hubble Fellow Selection Committee
2000: Member, AURA Foreign Membership Committee
2000: Member, Hubble Space Telescope “Second Decade” committee
1999: Co-author of NASA White Paper on the next generation Space UV/optical telescope
1999 – 2000: Member, NOAO Surveys Committee
1999: Chief Executive Officer, Sloan Digital Sky Survey
1995 – 2000: Chair, ARC Board of Governors
1995 - 1997: Member, AURA Oversight Committee for Gemini
1993 - 1995: Member, NOAO Time Allocation Committee
1993 - 1994: Member STScI Director Search Committee
1989 – 1991: Member, The Magellan Telescope Council
1986 – 1987: Member, AURA Committee on Future Directions for NOAO
1985 – 1986: Member, NOAO Director’s Advisory Committee
1985 – 1986: Chair, Kitt Peak National Observatory Users Committee
1983 – 1986: Member, Kitt Peak National Observatory Users Committee

Ph.D THESES SUPERVISED

1987: Stefi A. Baum – “Extended Optical Emission-Line Gas in Powerful Radio Galaxies”
1988: Eric P. Smith – “Multi-Color Surface Photometry of Powerful Radio Galaxies”
1989: Lee Armus – “An Optical Investigation of Far-Infrared Galaxies”
1992: Matthew D. Lehnert – “Ionized Gas in the Halos of Edge-On Starburst Galaxies: Testing the Superwind Model”
1997: Amanda T. Marlowe – “On the nature of blue amorphous galaxies”
1999: Jing Wang – “On nature of the 'diffuse ionized medium' in star-forming galaxies: An optical observational investigation”
2003: Christy A. Tremonti – “The physical properties of low redshift star forming galaxies: Insights from the space-UV and 20,000 SDSS spectra”
2003: Jonathan M. Gelbord – “Probing circumnuclear material in Seyfert galaxies with X-ray spectroscopy” (with Kim Weaver)
2004: Mark H. Seibert – “Ultraviolet and infrared properties of extra-galactic star formation” (with Gerhardt Meurer)
2007: Daniel J. Hanish – “The star formation rate density of the local universe from an HI-selected sample of galaxies” (with Gerhardt Meurer)
2007: John P. Grimes – “X-ray and FUV observations of starburst galaxies: Probing galactic feedback at high energies”
2007: Rafal Idzi – “Star formation at high redshift: the confrontation between theory and observations” (with Harry Ferguson)
2010: Timothy Reichard – “On the Lopsidedness of Local Galaxies”

2011: Stephanie LaMassa – “Multi-wavelength Diagnostics of the AGN/Star-formation Connection”
2012: Jianjun Jia – “The X-ray View of Obscured AGN and its Connection with Galaxy Evolution” (with Andrew Ptak)
2013: Kuang-Han Huang – “The size-luminosity distribution of Lyman Break Galaxies” (with Harry Ferguson)
2014: Zheng Zheng – “The Nature of the Disks of Present-Day Spiral Galaxies” (with David Thilker)
2018: Raymond Simons – “Assembly of Disk Galaxies from the Peak of Cosmic Star-Formation to Today” (with Susan Kassin)
2021: Erini Lambrides – “Blinded by the Light: Connecting the Growth of Super-Massive Black Holes and Galaxy Evolution” (with Marco Chiaberge)
2021: Bingjie Wang – “Implications for the Epoch of Reionization in the Local Universe”
2022: Elizaveta Sazonova – “Structural Evolution of Dying Galaxies” (with Katey Alatalo)
2022: Weichen Wang – “Observational Studies of The Relation Between Galactic Winds and Star Formation at Half the Age of the Universe” (with Susan Kassin)
2022; Alexander de la Vega – “Improvements on Assumptions in SED-Fitting Result in Galaxies Quenching at All Radii at the Same Time” (with Susan Kassin)
2024: Yuanze Luo – “The Connection Between Active Galactic Nuclei, Interstellar Medium, and Evolution of Nearby Galaxies” (with Kate Rowlands)

POSTDOC MENTORSHIP

Alessandra Aloisi, Jorge Barrera-Ballesteros, Antara Basu-Zych, Stefi Baum, Sanch Borthakur, Gary Bower, Ed Colbert, Michael Dahlem, Rosa Gonzalez Delgado, Roberto Della Ceca, Suvi Gezari, Max Gronke, Brent Groves, Yucheng Guo, Charles Hoopes, Ann Hornschemeier, Dhanesh Krishnarao, Bret Lehmer, Nancy Levenson, Zhihui Li, James Lowenthal, Mario Melendez, Gerhardt Meurer, Chris Mihos, Neal Miller, Sean Moran, Roderik Overzier, Andy Ptak, Susan Ridgway, Carmelle Robert, Kate Rowlands, Namrata Roy, David Strickland, David Thilker, Mark Voit, Kim Weaver, Vivienne Wild, Xinfeng Xu

MENTORSHIP OF PRIZE FELLOWS

1990-1991: Stefi A. Baum – Hubble Fellow
1994-1997: G. Mark Voit – Hubble Fellow
1997-1998: J. Christopher Mihos – Hubble Fellow
2000-2003: David K. Strickland – Chandra Fellow
2002-2005: Ann E. Hornschemeier – Chandra Fellow
2005-2008: Neal A. Miller – Jansky Fellow
2008-2011: Suvi Gezari – Hubble Fellow
2009-2012: Bret Lehmer – Einstein Fellow
2013-2014: Frederic Vogt – Fulbright Scholar
2020-2021: Max Gronke – Hubble Fellow
2024-present: Zhihui Li – William H. Miller III Fellow

TEACHING EXPERIENCE

Introduction to General Physics (undergraduate)
Introduction to Astronomy (undergraduate, non-technical)
Introduction to Astrophysics (advanced undergraduate)
The Solar System (undergraduate)
Active Galactic Nuclei (graduate)
Observational Astronomy (graduate and advanced undergraduate)
Galaxy Evolution (graduate)

SCHOOLS & PUBLIC LECTURES

1985: “The Physics of AGN”, lecture series at UC Berkeley Astronomy Dept
1986: “Quasars” lecture to Washington DC area amateur astronomers club
1987: “Galactic Collisions”, Montgomery College
1991: “Quasars and the Early Universe”, Smithsonian Resident Associates Program
1997: “Life in the Universe?” lecture to JHU Alumni group
1997: “Life in the Universe?” lecture at Howard County Boy Scout jamboree
2000: “The Violent Universe”, public talk, STScI
2000: “The Violent Universe”, public talk, Cleveland Museum of Natural History
2007: “Active Galactic Nuclei”, School on AGN, Hefei University
2007: “Starbursts, AGN, and their Co-Evolution”, School on AGN, Hefei University
2007: “The Co-Evolution of Galaxies and Black Holes”, School on AGN, Hefei University
2007: “Active Galactic Nuclei”, MAGPOP School, Seon
2008: “The Dark Side of the Force: Black Holes and the Life Cycles of Galaxies, public lecture, Aspen
2011: “The Co-Evolution of Galaxies & Black Holes”, McMaster University
2013: “Starbursts, AGN, and their Co-Evolution”, Jerusalem School on Galaxy Evolution
2015: Public Talk: “The Subaru Prime Focus Spectrograph Project”, Hilo, Hawaii
2015: Public Talk: “The Dark Side of the Force”, Hilo, Hawaii
2018: The Marker Public Lecture: “Our Cosmic Origins”, Penn State University
2022: “The Dark Side of the Force”, Trinity High School, New York City

INVITED CONFERENCE TALKS

1980: “Activity in Normal Galactic Nuclei”, IAU General Assembly, Montreal
1981: “Optical Emission Line Gas in the Jets and Lobes of Extragalactic Radio Sources”, ESO/ESA Workshop on HST Science, Garching
1981: “Optical Emission Line Gas in the Jets and Lobes of Extragalactic Radio Sources”, Active Galactic Nuclei workshop at KPNO

1983: “The Kinematics of Gas in the Narrow Line Region of AGN”, 26th Herstmonceux Conference on “Active Galactic Nuclei”

1984: “LINERs: Implications for Activity in the Nuclei of Normal Galaxies”, The Astrophysics of AGNs and QSOs, UC Santa Cruz

1984: “The Kinematics of Gas in the Narrow Line Region of AGN”, The Astrophysics of AGNs and QSOs, UC Santa Cruz

1984: “Kiloparsec-Scale Emission-Line Gas in AGN”, The Astrophysics of AGN, Johns Hopkins University

1985: “The Nature of Normal Galactic Nuclei”, AGN Workshop, University of Minnesota

1985: “HST Observations of QSOs and AGN”, HST workshop, University of Colorado

1985: “Environmental Clues to Nuclear Activity in Galaxies”, NOAO annual presentation to the National Science Foundation

1986: “Low Level Activity in Galactic Nuclei”, IAU Symposium 121, “Observational Evidence of Activity in Galaxies”, Byurakan Observatory

1986: “Optical Emission-Line Gas Associated with Radio Jets”, Aspen workshop on radio source physics

1987: “Star Formation in Quasars and Active Galaxies”, Starbursts and Galaxy Evolution, Moriond

1988: “Does Galaxy Morphology Influence the Character of Nuclear Activity?”, AGN workshop, STScI

1988: “AGN and Their Environments: Fueling Processes”, The Environment of Galaxies, KPNO workshop

1988: “Optical Observations of Disks and Jets in Extragalactic Radio Sources”, IAU General Assembly, Baltimore

1989: “Beaming and Isotropic Emission in AGN: Constraints from the Properties of the Host Galaxies”, Workshop on Beaming in AGN, Carnegie Observatories

1989: “Statistical Properties of Ionized Gas in Quasars and Radio Galaxies”, Radio Galaxies at High-Redshift, Berkeley

1989: “Galaxy Interactions as Triggers of Nuclear Activity in Galaxies”, IAU Colloquium 124: Paired and Interacting Galaxies, University of Alabama

1990: “The Starburst-AGN Connection”, Massive Stars in Starburst Galaxies, STScI

1991: “AGNs and Starburst Galaxies: Implications for Galaxy Formation and Evolution”, Galaxy Formation, Aspen

1991: “Spatially-Resolved Structures around High-Redshift QSOs”, AGN at High Redshift, STScI

1991: “The Host Galaxies of AGN: Are they Different?”, Joint Polish/US conference on Environments of AGN

1991: “Extranuclear Clues to the Fueling of AGN”, AGNs: Testing the Paradigm, NASA/GSFC

1992: “The Evolution of AGN: An Optical Perspective”, American Physics Society meeting

1992: “Starburst-Driven Galactic Winds”, The Nearest AGN, Madrid

1992: “Starburst-Driven Galactic Winds”, Evolution of Galaxies and their Environments, Grand Tetons

1992: “Quasars, Starbursts, and Galaxy Formation”, The Epoch of Galaxy Formation, The Vatican

1993: “Starbursts, AGN, and the Extranuclear Environment”, Mass-Transfer Induced Activity in Galaxies, University of Kentucky

1993: “The Halos of Starburst Galaxies”, The Physics of a Dynamic ISM, Aspen

1993: “X-ray Observations of Starburst Galaxies, The ROSAT Science Symposium, NASA/GSFC

1994: “HST Observations of the Violent ISM in Starbursts”, Hot Stars and the ISM, AAS, Minneapolis

1995: “Feedback from Starbursts and Forming Galaxies”, Galaxy Formation and the IGM, ITP UC Santa Barbara

1995: “Superwinds and Superbubbles”, The Interplay between Massive Stars, the ISM, and Galaxy Evolution, IAP Paris

1995: “Conference Summary”, The Physics of LINERs, STScI

1995: “Nuclear Outflows in Bar-Induced Starbursts”, Noble Symposium 98, Barred Galaxies and Circumnuclear Activity, Stockholm

1996: “Outflows from Starburst Galaxies”, Starburst Activity in Galaxies, Puebla

1996: “The Impact of Starbursts on their Environments”, Galaxy Interactions at Low and High Redshift, Aspen

1996: “HST Images of High-Redshift QSOs”, HST and the Distant Universe, RGO, Cambridge

1996: “Starbursts and Cosmogony”, Star Formation Near and Far, NASA/GSFC

1997: “Galactic Superwinds”, AIP session on Supernovae and Supernova-Remnants, Washington, DC

1997: “UV Spectroscopy of the Nuclei of Starburst and Seyfert Galaxies”, The Ultraviolet Universe at Low and High Redshift, University of Maryland

1997: “Starbursts and the Evolution of Galaxies”, Cosmic Origins, Rocky Mountain National Park

1997: “Galactic Winds in Starbursts”, Galaxy Interactions at Low and High Redshift, Kyoto

1997: “Starbursts and the High-z Universe”, The Most Distant Galaxies, Dutch Royal Academy, Amsterdam

1998: “Starbursts and Cosmogony”, The Evolution of Galaxies, Blois

1998: “ULIRGs from a Cosmological Perspective”, ULIRGs: Babies or Monsters?, Ringberg

1998: “Starbursts and the High-z Universe”, NASA/GSFC

1998: “The Energetic Role of Massive Stars in AGN”, The Wolf-Rayet Phenomenon in Massive Stars and Starburst Galaxies, Puerto Vallarta

1999: “Starbursts and the Formation of Galaxies and AGN”, The Formation of Galaxies, Royal Society, London

1999: “Superwinds in Starbursts: A Cosmological Perspective”, AAS 194

2001: “Galactic Winds Circa 2001”, Extragalactic Gas and Low and High Redshift, Carnegie Observatories

2001: The Cosmological Impact of Galactic Winds: a Summary, AAS 198

2001: A Panchromatic Look at the Star-Formation Rate in the Local Universe, AAS 198

2001: “Galactic Superwinds at Low and High Redshift”, Gas and Galaxy Evolution, NRAO Socorro

2001: “Galactic Superwinds at Low and High Redshift”, Baltimore/Washington Starburst workshop, STScI

2002: “Galactic Winds Circa 2002”, Galaxy Evolution, Cozumel

2002: “Spectroscopy of 100 Kilo-Galaxies”, Sacker Lecture, Leiden

2002: “Spectroscopy of 100 Kilo-Galaxies”, Large-Scale Structure and Galaxy Evolution, NASA/GSFC

2002: “Star Formation and AGN”, The Coevolution of Galaxies and Black Holes, Carnegie Observatories

2002: “Star Formation and AGN”, Star Formation Through Cosmic Time, Grenada

2003: “The Hosts of 25,000 AGN”, Galaxy Evolution in the New Era, ETH Zurich

2003: “The Hosts of 25,000 AGN”, AGN and the SDSS, Princeton

2003: “The Hosts of 25,000 AGN”, Stellar Populations in Galaxies, Garching

2003: “The Hosts of 25,000 AGN”, Multiwavelength Surveys of AGN, Cozumel

2004: “The Co-Evolution of Galaxies and Black Holes”, Royal Society London

2004: “The Evolution of the Cosmic Star Formation Rate: A GALEX Perspective”, Aspen Physics Center

2004: “Starbursts in the Far-Ultraviolet”, Astrophysics in the Far-Ultraviolet, University of Victoria

2004: “Local Starbursts in a Cosmological Context”, From 30 Doradus to Lyman Break Galaxies, Cambridge University

2004: “Galactic Winds”, Galaxy-Intergalactic Medium Interactions, KITP, UC Santa Barbara

2004: “Star Formation Rates in Galaxies: A Panchromatic Perspective”, AAS 214, Pasadena

2005: “Starburst-Driven Winds”, Faber/Blumenthal/Primack Fest, UC Santa Cruz

2005: “Starburst Winds: A Panchromatic Perspective”, Galaxy Evolution: the View from Spitzer, Pasadena

2006: “Feedback and the Evolution of Galaxies”, The Evolution of Massive Galaxies, Tucson

2006: “Starburst-Driven Winds”, Cosmic Heating and Cooling, Garching

2006: “The Co-Evolution of Galaxies and Black Holes”, Physics of Galactic Nuclei, KITP

2006: “The Co-Evolution of Galaxies and Black Holes”, MAGPOP meeting, Toledo, Spain

2007: “The Co-Evolution of Galaxies and Black Holes”, Obscured AGN, Seon

2007: “Starburst-Driven Winds”, Cosmic Accretion, Garching

2007: “The Co-Evolution of Galaxies and Black Holes”, Astrophysics in the Next Decade, Tucson

2007: “The Co-Evolution of Galaxies and Black Holes”, Supermassive Black Holes”, Tucson

2008: “AGN in the UV and Optical: Prospects for the Future”, The Physics of AGN, Aspen

2008: “Galactic Winds”, Massive Stars: Formation and Feedback , NRAO, Charlottesville

2008: “The Co-Evolution of Galaxies and Black Holes”, The Starburst-AGN Connection”, Shanghai

2009: “New Windows on Gas in Galaxies”, GASS Team meeting, Garching

2009: “Feeding and Feedback in Radio-Quiet AGN”, Supermassive Black Holes, Como, Italy

2009: “The Co-Evolution of Galaxies and Black Holes”, Plenary Lecture, International Astronomical Union, General Assembly, Rio de Janeiro

2009: “The GALEX Arecibo SDSS Survey” The Evolution of Gas in Galaxies, Charlottesville

2010: “Starbursts in a Cosmological Context”, Extreme Starbursts at Low and High Redshift, Granada

2010: “Obscured AGN in the BOSS Survey”, BOSS Galaxy Collaboration Meeting, Tokyo

2010: “Feedback, Fueling, and the co-Evolution of Galaxies and Super-massive Black Holes”, Massive Galaxies Across Cosmic Time III, Tucson

2011: “Multiwaveband Diagnostics of Obscured AGN”, The Formation & Evolution of Galaxies, Aspen

2011: “The Co-evolution of Galaxies & Supermassive Black Holes, Galaxy Formation, Durham

2011: “Conference Summary”, The Starburst-AGN Connection, ESA, Madrid

2011: “The Science of New Worlds New Horizons”, AAS Boston

2011: “Gas in the Cosmos: Prospects for the Next Decade”, NASA Cosmic Origins meeting (COPAG) at STScI

2011: “Conference Summary Panel”, Wide Field Surveys in Light of ASTRO2010, STScI

2012: “Galactic Winds”, Gas Flows in Galaxies, STScI

2012: “The Co-Evolution of Galaxies & Black Holes”, Active Galactic Nuclei, Technion, Haifa

2012: “Introduction to Galactic Winds”, Galactic Winds of Change, Sesto

2012: “Conference Introduction”, The Galaxy, Gas, Black Hole Cosmic Ecosystem”, Leiden Observatory

2012: “The Co-Evolution of Galaxies & Black Holes”, GALEX Conference, Pasadena

2012: “Conference Summary” Binary Black Holes & Dual AGN, NOAO, Tucson

2013: “The Hot Phase of Galactic Winds” Galactic Winds, Max Planck Ringberg Conference

2013: “The Co-Evolution of Galaxies and Supermassive Black Holes”, Galaxy Evolution over Five Decades, Cambridge University

2013: “Radio Galaxies in the Contemporary Universe”, Radio Galaxies and the World, Leiden University

2014: “The Hot Phase in Galactic Winds”, Galactic Winds: Beyond Phenomenology, Simons Foundation, Puerto Rico

2014: “The Multi-Phase Nature of Galactic Winds”, Kavli Institute for Theoretical Physics workshop on Feedback and Galaxy Evolution

2014: “X-raying Galactic Winds”, Extra-galactic Science with the Chandra X-ray Observatory, Cambridge, MA

2014: Rapporteur for “Beyond the Local Group” at Wide-Field Infrared Surveys from Space, Pasadena, CA

2015: “Systematic Properties of Galactic Winds” at the Aspen workshop on the Circum-Galactic Medium

2015: “Feedback in 3-D”, at the Heidelberg conference on 3-D Spectroscopy of Galaxies

2015: Discussion Leader: “The Role of Gas” at the Zwicky Symposium on Galaxy Evolution

2015: Session Chair: NRAO Workshop on Accretion into Galaxies

2016: “Feedback in 3-D”, at the Cozumel conference on 3-D Spectroscopy of Galaxies

2016: “Properties of Starburst-Driven Winds” at Simons Symposium “Galactic Winds: Beyond Phenomenology, Schloss Elmau (Germany)

2016: “Properties of Starburst-Driven Winds” at Simons Symposium “Galactic Winds: Beyond Phenomenology, Schloss Elmau, Germany

2016: “Local Clues to the Reionization of the Universe” at the conference “Cosmic dawn of galaxy formation”, Institut d’Astrophysique de Paris

2016: “The Properties of the Circum-Galactic Medium in the Present-Day Universe” at the conference “Massive Beasts of the Cosmos”, Kruger Park, South Africa

2017: “The Impact of Galactic Winds on the Circum-Galactic Medium” at the conference “The Circum-Galactic Medium”, Durham

2017: “The Role of Feedback on the Reionization of the Universe, at the conference “Cosmic Dawn” at the Space Telescope Science Institute

2017: “Galactic Winds and the Transport of Metals, at the conference “The Chemical Evolution of the Universe” Tarrytown NY

2017: “Uncertainties in the analyses of optical and UV spectra of galaxies” at the conference “Spectroscopy of Galaxies in the Era of JWST, Leiden Center, Leiden

2018: “The Impact of Galactic Winds on the Circum-Galactic Medium” at the conference “A Star is Born”, Abbazia Spineto, Italy

2018: “New Observations of Galactic Winds”, Third Simons Foundation meeting on “Galactic Winds: Beyond Phenomenology”, Schloss Elmau, Germany

2018: “The Role of AGN Feedback”, conference on “The Reionization of the Universe”, Chania, Greece

2018: “The Evolution of Galaxies & Black Holes: Big Questions, Joint GSFC/JHU Interaction Day

2019: “Supernova-Driven Winds and the Evolution of Galaxies”, conference on Supernovae, Space Telescope Science Institute

2019: “Big Eyes and Physics of Feedback” at Giant Telescopes and the Evolution of Galaxies”, UCLA

2019: Conference Summary, Baryon Cycles in Galaxies conference, San Diego

2019: “Starburst winds, the CGM, and the origin of coronal-phase gas”, conference on the Circum-Galactic Medium, Max-Planck Society, Berlin

2019: “Feedback and Evolution of Galaxies”: Plenary Lecture, the Brazilian Astronomical Society.

2020: “Feedback and Evolution of Galaxies”: Plenary Prize Lecture of the American Astronomical Society.

2021: “Galactic Winds and the Circum-Galactic Medium”: KITP workshop on “The Fundamentals of Gaseous Halos”

2021: “Galactic Winds and Multi-Object Spectroscopy” – discussion lead, Multi-Object Spectroscopy for Statistical Measures of Galaxy Evolution, STScI

2021: “Systematic Properties of Galactic Winds” Johns Hopkins University workshop

2022: “New Results on Galactic Winds” conference in Champoluc, Italy “What Matters Around Galaxies”

2023: “The Impact of Feedback from Massive Stars and Black Holes on the Circum-Galactic Medium” conference in Tempe, AZ “Oases in the Cosmic Desert”

2024: “JWST Reveals Powerful Feedback from Radio Jets in a Massive Galaxy at $z = 4.1$ ”, IAU Symposium 391: The first chapters of our cosmic history with JWST, Cape Town South Africa

2024: Discussion leader on “Large-Scale Flows in the Circum-Galactic Medium”, in “Toward a Holistic Understanding of the Multi-scale, Multiphase Circumgalactic Medium”, Aspen Center for Physics

2024: “What Quenches Star Formation in Galaxies?”, Goddard JHU Interaction Day, GSFC

2024: “Mergers, Jets, and the Quenching of Star Formation in Massive Galaxies”, at “The Formation and Early Evolution of Supermassive Black Holes”, JSI, Baltimore.

2025: “Mergers, Jets, and the Quenching of Star Formation in Massive Galaxies”, at conference on “The Fermi Bubbles and Related Phenomena”, NRAO, Greenbank

2025: “Feedback from Stars and Black Holes: How do they work and what are they good for?” Star Formation, Stellar Feedback, and the Ecology of Galaxies: Celebrating John Bally's lifetime in Astronomy, Budapest, Hungary

2025: “Mergers, Jets, and the Quenching of Star Formation in Massive Galaxies”, at conference “Cosmic Ecosystems”, Perimeter Institute

2025: “Feedback from Stars and Black Holes: How do they work and what are they good for?”, conference “XRISM International Conference”, Kyoto

2025: “What Quenches Star Formation in Massive Galaxies”, at conference “The multiscale environment of AGN across cosmic time”, Ringberg Castle

COLLOQUIA

1978: “Activity in the Nuclei of Nearby Galaxies”, University of Washington

1978: “Activity in the Nuclei of Nearby Galaxies”, Leiden Observatory

1979: "Activity in the Nuclei of Nearby Galaxies", Max Planck Institute for Radio Astronomy, Bonn

1979: "Activity in the Nuclei of Nearby Galaxies", ESO (Geneva)

1979: "Activity in the Nuclei of Nearby Galaxies", Groningen University

1979: "Circumnuclear Gas in Seyfert Galaxies", Utrecht University

1979: "Circumnuclear Gas in Seyfert Galaxies", Dwingeloo Radio Observatory

1980: "Activity in the Nuclei of Nearby Galaxies", University of Texas

1980: "Activity in the Nuclei of Nearby Galaxies", University of Massachusetts

1980: "Circumnuclear Gas in Seyfert Galaxies", NRAO

1980: "Circumnuclear Gas in Seyfert Galaxies", Penn State

1980: "Circumnuclear Gas in Seyfert Galaxies", University of Minnesota

1980: "Circumnuclear Gas in Seyfert Galaxies", University of Massachusetts

1981: "Circumnuclear Gas in Seyfert Galaxies", University of Maryland

1981: "Optical Emission-Line Gas in Extragalactic Radio Sources", University of Arizona

1981: "Optical Emission-Line Gas in Extragalactic Radio Sources", University of Illinois

1982: "Optical Emission-Line Gas in Extragalactic Radio Sources", NASA/GSFC

1983: "Optical Emission-Line Gas in Extragalactic Radio Sources", NRAO

1984: "Galaxy Interactions and the Origin of Nuclear Activity", Carnegie/DTM

1984: "Galaxy Interactions and the Origin of Nuclear Activity", NASA/GSFC

1984: "Optical Emission-Line Gas in Extragalactic Radio Sources", U. Maryland

1985: "Optical Emission-Line Gas in Extragalactic Radio Sources", Ohio State

1985: "Optical Emission-Line Gas in Extragalactic Radio Sources", University of Colorado

1985: "Optical Emission-Line Gas in Extragalactic Radio Sources", University of Hawaii

1985: "Optical Emission-Line Gas in Extragalactic Radio Sources", University of Minnesota

1986: "The Host Galaxies of Low-Redshift Quasars", Johns Hopkins University

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2001: "Starbursts & Cosmogony", Columbia University
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2003: "Cosmic Astrophysics", Institute for Advanced Study
2003: "Cosmic Astrophysics", University of Kentucky
2003: "Cosmic Astrophysics", Space Telescope Science Institute
2003: "Cosmic Astrophysics", Penn State
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2005: "Feedback and the Evolution of Galaxies", IGPP/Livermore

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Penn State
2018: “Galactic Winds and the Evolution of Galaxies”, Arizona State
2018: “The Co-Evolution of Galaxies and Supermassive Black Holes”,
Arizona State
2019: “Galactic Winds and the Evolution of Galaxies” the Kavli Institute for the
Physics and Mathematics of the Universe, Tokyo
2019: “Galactic Winds and the Evolution of Galaxies”, University of Tokyo
2019: “Feedback and the Evolution of Galaxies” Osaka University
2019: “Feedback and the Evolution of Galaxies” National Astronomical
Observatory of Japan
2021: “Feedback and the Evolution of Galaxies” North Carolina State

2022: “Feedback and the Evolution of Galaxies”, colloquium, Department of Physics and Astronomy”, University College London

2022: “Galactic Winds and the Evolution of Galaxies”, seminar, Astrophysics Group, University College London

2023: “Feedback and the Evolution of Galaxies”, colloquium, SESE, Arizona State University

2023: “Feedback and the Evolution of Galaxies”. Colloquium IPMU, Tokyo

2024: “Feedback and the Evolution of Galaxies”, Colloquium, University of Maryland

2025: “What Quenches Star-Formation in Massive Galaxies?” SESE, ASU

2025: “What Quenches Star-Formation in Massive Galaxies?”, Steward Observatory, University of Arizona

PUBLICATIONS

Summary:

Total refereed publications: 575

Total citations: 112,359

Hirsch H-Factor: 154 (154 refereed papers with 154 or more citations)

Most Cited Publications with TH as first or second author (at least 500 citations):

- 1) The host galaxies of active galactic nuclei, Kauffmann, G., Heckman, T. et al., 2003, MNRAS, 346, 1055 (3648 citations)
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- 3) Stellar masses and star formation histories for 10^5 galaxies from the Sloan Digital Sky Survey, Kauffmann, G., Heckman, T. et al., 2003, MNRAS, 341, 33 (2237 citations)
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