

# CURRICULUM VITAE

January 16, 2018

TIMOTHY M. HECKMAN

## PERSONAL

**Born:** October 11, 1951 in Toledo, Ohio

**Wife:** Joanne Orsini Heckman

**Children:** David D. and Steven K. 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

**July 2015:** Chair, Department of Physics & Astronomy, Johns Hopkins University

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

**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” and a “Highly Cited Researcher”  
**2015:** Named Overseas Fellow of Churchill College, Cambridge University  
**2015:** Named Sackler Distinguished Visitor at Cambridge University  
**2016:** Named “Highly Cited Researcher” by Web of Universities  
**2016:** Elected as Member of the National Academy of Sciences

## PROFESSIONAL MEMBERSHIP

American Astronomical Society  
American Physical Society  
International Astronomical Union  
American Association for the Advancement of Science

## SERVICE

**2015 - Present:** Chair, Department of Physics & Astronomy, The Johns Hopkins University  
**2002 – 2015:** Director, Center for Astrophysical Sciences, The Johns Hopkins University  
**2002 – Present:** Member, Executive Committee, Department of Physics & Astronomy, The Johns Hopkins University  
**2017 - 2019:** Member, Board on Physics and Astronomy, National Academy of Science  
**2017-2018:** Member US National Committee for the IAU  
**2014 - 2017:** Member, AURA Space Telescope Institute Council  
**2014:** Member, Internal Review Committee, Dept. of Earth & Planetary Sciences, Johns Hopkins University  
**2014:** Member NAS/NRC committee on WFIRST/AFTA  
**2012 – 2017:** General Member, Aspen Center for Physics  
**2011-2016:** Member, Committee on Astronomy & Astrophysics (NAS/NRC)  
**2011-Present:** Member, Subaru Prime Focus Spectrograph Steering Committee  
**2011:** Member, Visiting Committee, Department of Astronomy, Harvard University  
**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, JHU  
**2010 – 2012:** Member, LSST Board  
**2009 – 2017:** Member, JWST Science Advisory Committee  
**2008 – 2010:** Member, National Academy of Science “ASTRO2010” decadal review 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 – Present:** 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  
**2001 – 2007:** Member, AURA Space Telescope Institute Council  
**2004 – 2007:** Member, National Research Council, Committee on Astronomy & Astrophysics  
**2003 – 2006:** Member, NASA Structure & Evolution of the Universe Subcommittee  
**2005:** Member, NASA Structure & Evolution of the Universe Roadmap Team  
**2005:** Member, AURA STScI Director Search Committee  
**2001:** Member, AURA Nominating Committee  
**1995 – 2000:** Chair, ARC Board of Governors  
**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 - 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 – “Starbursts and the Evolution of Dwarf Galaxies”, J
- 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”
- 2004:** Mark H. Seibert – “Ultraviolet and infrared properties of extra-galactic star formation”
- 2007:** Daniel J. Hanish – “The star formation rate density of the local universe from an HI-selected sample of galaxies”
- 2007:** John P. Grimes – “X-ray and FUV observations of starburst galaxies: Probing galactic feedback at high energies”
- 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”
- 2014:** Zheng Zheng – “The Nature of the Disks of Present-Day Spiral Galaxies”

## **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

## **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)  
Extragalactic Astronomy (graduate)

## **SCHOOLS & PUBLIC LECTURES**

- 1985:** “The Physics of AGN”, lecture series at UC Berkeley Astronomy Dept  
**1986:** “Quasars” lecture to Washington area amateur astronomers club  
**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

## **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”, 26<sup>th</sup> 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:** “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

**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

**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

## 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  
**1986:** “The Host Galaxies of Low-Redshift Quasars”, University of Maryland  
**1986:** “The Optical Properties of Powerful Radio Galaxies”, UC Berkeley  
**1986:** “Optical Emission-Line Gas in Extragalactic Radio Sources”, Livermore  
**1987:** “Starburst-Driven Galactic Superwinds”, Johns Hopkins University  
**1987:** “Starburst-Driven Galactic Superwinds”, UC Berkeley  
**1987:** “Galactic Collisions”, Montgomery College  
**1987:** “The Optical Properties of Powerful Radio Galaxies”, STScI  
**1988:** “Starburst-Driven Galactic Superwinds”, Harvard University  
**1988:** “Starburst-Driven Galactic Superwinds”, Princeton University  
**1988:** “Starburst-Driven Galactic Superwinds”, University of Michigan  
**1988:** “Optical Emission-Line Gas in Extragalactic Radio Sources”, Johns Hopkins University  
**1989:** “Starburst-Driven Galactic Superwinds”, CTIO  
**1989:** “Starburst-Driven Galactic Superwinds”, STScI  
**1989:** “Starburst-Driven Galactic Superwinds”, University of Virginia  
**1990:** “Starburst-Driven Galactic Superwinds”, Rutgers University  
**1990:** “Starburst-Driven Galactic Superwinds”, Leiden Observatory  
**1990:** “Starburst-Driven Galactic Superwinds”, Groningen University  
**1990:** “The Environments of High-Redshift Quasars”, STScI  
**1991:** “Starburst-Driven Galactic Superwinds”, University of Pennsylvania  
**1991:** “The Environments of High-Redshift Quasars”, CTIO  
**1992:** “Starburst-Driven Galactic Superwinds”, Lawrence Livermore  
**1992:** “Starburst-Driven Galactic Superwinds”, Caltech  
**1992:** “Starburst-Driven Galactic Superwinds”, University of Washington  
**1992:** “The Environments of High-Redshift Quasars”, University of Maryland  
**1992:** “The Environments of High-Redshift Quasars”, UC Berkeley

**1992:** “The Cosmic Evolution of Quasars”, Brookhaven National Lab  
**1993:** “Starburst-Driven Galactic Superwinds”, NASA/GSFC  
**1995:** “The Starburst-AGN Connection”, NASA/GSFC  
**1995:** “The Starburst-AGN Connection”, STScI  
**1996:** “Starbursts and Cosmogony”, University of Maryland  
**1996:** “Starbursts and Cosmogony”, STScI  
**1996:** “Starbursts and Cosmogony”, NASA/GSFC  
**1997:** “Starbursts and Cosmogony”, Caltech  
**1997:** “Starbursts and Cosmogony”, University of Washington  
**1998:** “Starbursts and Cosmogony”, MPA/ESO Garching  
**1999:** “Starbursts from a Cosmological Perspective”, Case Western Reserve  
**1999:** “Starbursts from a Cosmological Perspective”, University of Massachusetts  
**1999:** “Starbursts from a Cosmological Perspective”, Yale University  
**1999:** “Starbursts from a Cosmological Perspective”, University of Michigan  
**1999:** “Starbursts from a Cosmological Perspective”, NRAO  
**2000:** “Galactic Superwinds at Low and High Redshift”, University of Toronto  
**2000:** “Galactic Superwinds at Low and High Redshift”, NRAO  
**2001:** “Galactic Superwinds at Low and High Redshift”, Caltech  
**2001:** “Galactic Superwinds at Low and High Redshift”, University of British Columbia  
**2001:** “Galactic Superwinds at Low and High Redshift”, University of Victoria  
**2001:** “Galactic Superwinds at Low and High Redshift”, University of Arizona  
**2001:** “Galactic Superwinds at Low and High Redshift”, MPA/ESO, Garching  
**2001:** “Starbursts & Cosmogony”, Herzberg Institute/DAO, Victoria  
**2001:** “Starbursts & Cosmogony”, Columbia University  
**2002:** “Spectroscopy of 100,000 Galaxies”, Ohio State  
**2002:** “Spectroscopy of 100,000 Galaxies”, Leiden Observatory  
**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  
**2003:** “Cosmic Astrophysics”, Yale University  
**2003:** “Cosmic Astrophysics”, Harvard University  
**2004:** “Cosmic Astrophysics”, University of Virginia  
**2004:** “Cosmic Astrophysics”, University of Toronto  
**2005:** “Cosmic Astrophysics”, UC Berkeley  
**2005:** “Feedback and the Evolution of Galaxies”, IGPP/Livermore  
**2006:** “The Co-Evolution of Galaxies & Black Holes”, George Mason University  
**2006:** “The Co-Evolution of Galaxies & Black Holes”, SUNY, Stony Brook  
**2007:** “The Co-Evolution of Galaxies & Black Holes”, Carnegie Observatories  
**2007:** “Feedback and the Evolution of Galaxies”, Spitzer Science Center  
**2007:** “The Co-Evolution of Galaxies & Black Holes”, Yale University  
**2007:** “The Co-Evolution of Galaxies & Black Holes”, Univ. of Connecticut  
**2007:** “The Co-Evolution of Galaxies & Black Holes”, Rochester Institute of Technology  
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**2009:** “The Co-Evolution of Galaxies & Black Holes”, Big Apple Colloquium  
**2009:** “The Co-Evolution of Galaxies & Black Holes”, Institute for Advanced Study  
**2009:** “The Co-Evolution of Galaxies & Black Holes”, Edinburgh  
**2009:** “The Role of Feedback in the Evolution of Galaxies, Edinburgh  
**2010:** “The Co-Evolution of Galaxies & Black Holes”, University of Toledo  
**2010:** “The Role of Feedback in the Evolution of Galaxies”, UCLA  
**2010:** “The Co-Evolution of Galaxies & Black Holes”, MIT  
**2011:** “The Role of Feedback in the Evolution of Galaxies”, University of Maryland  
**2011:** “The Co-Evolution of Galaxies & Black Holes”, NASA/GSFC  
**2012:** “The Co-Evolution of Galaxies & Black Holes”, NRAO, Socorro  
**2012:** “The Co-Evolution of Galaxies & Black Holes”, Georgia Tech  
**2013:** “The Co-Evolution of Galaxies & Black Holes”, University of Kentucky  
**2014:** “The Co-Evolution of Galaxies & Black Holes”, University of Colorado  
**2015:** “Galactic Winds: Implications for Galaxy Evolution”, Cambridge University  
**2015:** “The Co-Evolution of Galaxies & Black Holes”, Oxford University  
**2015:** “Galactic Winds: Implications for Galaxy Evolution”, Garching  
**2015:** “The Co-Evolution of Galaxies & Black Holes”, Cambridge University  
**2016:** “The Role of Feedback in the Evolution of Galaxies”, STScI  
**2017:** “Feedback and the Evolution of Galaxies and Black Holes”, Michigan St.  
**2017:** “Feedback and the Evolution of Galaxies and Black Holes”, UConn

## **PUBLICATIONS**

### **Summary:**

**Total refereed publications: 478**

**Total citations: 69,975**

**Hirsch H-Factor: 123** (123 papers with 123 or more citations)

### **Most Cited Publications with TH as first or second author (at least 300 citations):**

- 1) The Origin of the Mass-Metallicity Relation: Insights from 53,000 Star-forming Galaxies in the Sloan Digital Sky Survey, Tremonti, C., Heckman, T. et al., 2004, ApJ, 613, 898 (1782 citations)
- 2) The host galaxies of active galactic nuclei, Kauffmann, G., Heckman, T. et al., 2003, MNRAS, 346, 1055 (1666 citations)
- 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 (1211 citations)

- 4) On the nature and implications of starburst-driven galactic superwinds, Heckman, T., Armus, L., & Miley, G., 1990, *ApJS*, 74, 833 (983 citations)
- 5) An optical and radio survey of the nuclei of bright galaxies - Activity in normal galactic nuclei, Heckman, T., 1980, *A&A*, 87, 152 (877 citations)
- 6) The dependence of star formation history and internal structure on stellar mass for 105 low-redshift galaxies, Kauffmann, G., Heckman, T., et al., 2003, *MNRAS*, 341, 54 (805 citations)
- 7) Dust Absorption and the Ultraviolet Luminosity Density at  $z \sim 3$  as Calibrated by Local Starburst Galaxies, Meurer, G., Heckman, T., & Calzetti, D. 1999, *ApJ*, 521, 64 (660 citations)
- 8) Synthetic properties of starburst galaxies, Leitherer, C., & Heckman, T., 1995, *ApJS*, 96, 9 (653 citations)
- 9) Starbursts and Star Clusters in the Ultraviolet, Meurer, G., Heckman, T. et al., 1995, *AJ*, 110, 2665 (494 citations)
- 10) Present-Day Growth of Black Holes and Bulges: The Sloan Digital Sky Survey Perspective, Heckman, T., Kauffmann, G., Brinchmann, J., Charlot, S., Tremonti, C., White, S., 2004, *ApJ*, 613, 109 (483 citations)
- 11) Dynamical, physical, and chemical properties of emission-line nebulae in cooling flows, Heckman, T., Baum, S., van Breugel, W., & McCarthy, P., 1989, *ApJ*, 338, 481 (423 citations)
- 12) Absorption-Line Probes of Gas and Dust in Galactic Superwinds, Heckman, T., Lehnert, M., Strickland, D., Armus, L. 2000, *ApJS*, 129, 493 (414 citations)
- 13) Galaxy collisions and mergers - The genesis of very powerful radio sources?, Heckman, T. et al., 1986, *ApJ*, 311, 526 (378 citations)
- 14) Emission-line profiles and kinematics of the narrow-line region in Seyfert and radio galaxies, Heckman, T. M.; Miley, G. K.; van Breugel, W. J. M.; Butcher, H. R. 1981, *ApJ*, 247, 403 (359 citations)

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**1976:**

T.M. Heckman and W.T. Sullivan III, "The Puzzle of the High Velocity Water Vapor Features in W49," *Ap. Lett.*, 17: 105

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T.M. Heckman "Peculiar Nuclei and Their Relation to Galaxy Type," *P.A.S.P.*, 90: 241

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An Optical and Radio Survey of the Nuclei of Bright Galaxies: Paper I: T.M. Heckman, B. Balick, P. Crane, "Sample Selection and Observations," *Astr. And Ap. Suppl.* 40: 293

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