

Curriculum Vitae

Vicky (Vassiliki) Kalogera

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Dept of Physics & Astronomy

CIERA - Center for Interdisciplinary
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EDUCATION

- 1992 – 1997 **Ph.D. in Astronomy**, University of Illinois
at Urbana-Champaign
Ph.D. Thesis: “Formation of Low-Mass X-Ray Binaries”
Advisor: Prof. Ronald F. Webbink (Univ. of Illinois)
- 1988 – 1992 **Ptithio (B.S.) in Physics**,
University of Thessaloniki, Greece
Diploma Thesis: “Investigations of the Intrinsic Properties of
Cataclysmic Binaries”
Advisors: Profs. Jan van Paradijs (Univ. of Amsterdam) and
John H. Seiradakis (Univ. of Thessaloniki)

RESEARCH INTERESTS

Astrophysics of Compact Objects (White Dwarfs, Neutron Stars, and Black Holes)
Populations of Compact Objects in Binaries and Massive Stars, as Gravitational-Wave Sources, X-ray
Binaries, Binary Pulsars, Gamma-Ray Bursts, Supernovae and Supernova Progenitors
Formation and Evolution of Binary Systems with Compact Objects in the Milky Way and other
galaxies, in Fields and Dense Stellar Environments
Time-Domain, Gravitational-Wave, and Transient Astrophysics
Advanced Data Analysis and Inference Methods

EMPLOYMENT

- 2017 – Daniel I. Linzer Distinguished University Professor
and Professor of Physics and Astronomy
- 2012 – Director, Center for Interdisciplinary Exploration
and Research in Astrophysics (CIERA),
Northwestern Univ.
- 2009 – 2017 E. O. Haven Professor of Physics and Astronomy,
Northwestern Univ.
- 2009 – 2012 Co-Director, Center for Interdisciplinary Exploration
and Research in Astrophysics (CIERA),
Northwestern Univ.
- 2006 – 2009 Associate Professor, Dept. of Physics and Astronomy,
Northwestern Univ.
- 2001 – 2006 Assistant Professor, Dept. of Physics and Astronomy,
Northwestern Univ.
- 2000 – 2001 Clay Postdoctoral Fellow, Smithsonian Astrophysical Observatory
- 1997 – 2000 CfA Postdoctoral Fellow, Smithsonian Astrophysical Observatory

AWARDS and HONORS

| | |
|-------------|---|
| 2018 | Dannie Heineman Prize for Astrophysics of the American Institute of Physics (AIP) and the American Astronomical Society (AAS) |
| 2017 | Aristotle University of Thessaloniki Distinguished Alumni Award |
| 2017 – 2022 | Senior Fellow, Gravity and Extreme Universe Program, Canadian Institute For Advanced Research (CIFAR) |
| 2017 | Martin E. and Gertrude G. Walder Award for Research Excellence, Northwestern University |
| 2016 | Hans A. Bethe Prize of the American Physical Society |
| 2014 – 2020 | Elected Trustee, Aspen Center for Physics (two terms of three years each) |
| 2012 | Simons Foundation Fellow in Theoretical Physics |
| 2009 | Kavli Fellow, German-American Kavli Frontiers of Science Symposium (organized by the National Academy of Sciences) |
| 2009 | Fellow of the American Physical Society |
| 2008 | Selected as one of Astronomy Magazine’s “Top 10 Rising Stars of Astronomy” |
| 2008 | Award for Excellence in Mentoring Undergraduate Research, Weinberg College of Arts and Sciences, Northwestern University |
| 2008 | Maria Goeppert-Mayer Award of the American Physical Society |
| 2005 | NSF CAREER Award in Astronomy |
| 2004 | Cottrell Scholar Award by the Research Corporation |
| 2002 | David and Lucile Packard Foundation Fellowship in Science and Engineering |
| 2002 | A. J. Cannon Award of the American Astronomical Society (AAS) and the American Association of University Women (AAUW) |

COLLABORATION AWARDS and HONORS for the LIGO Discovery of GW150914

| | |
|------|---|
| 2017 | Princess of Asturias Award for Technical and Scientific Research jointly to the LIGO Scientific Collaboration and to Weiss, Thorne, and Barish. |
| 2017 | Einstein Medal from the Einstein Society in Bern, Switzerland to the LIGO Scientific Collaboration |
| 2017 | UK RAS Group Achievement Award in Astronomy to the LIGO Team |
| 2017 | Bruno Rossi Prize (AAS HEAD) to Gonzalez and the LIGO Scientific Collaboration |
| 2016 | CBC Science Story of the Year |
| 2016 | APS Physics Highlights of the Year, #1 |
| 2016 | <i>Science</i> ’s Breakthrough of the Year |
| 2016 | Science News Magazine’s Top Science Story of 2016 |
| 2016 | IOP Physics World Breakthrough of the Year to the LIGO Scientific Collaboration |
| 2016 | Foreign Policy Magazine, Top 100 Global Thinkers to the LIGO Scientific Collaboration |
| 2016 | Distinguished Science Award, National Space Club - Huntsville Chapter to the LIGO GW150914 Discovery Team |
| 2016 | Gruber Cosmology Prize to Drever, Thorne, Weiss, and the LIGO Discovery Team |
| 2016 | Special Breakthrough Prize in Fundamental Physics to Drever, Thorne, Weiss, and the LIGO Discovery Team |

COLLABORATION AWARDS and HONORS for the LIGO Discovery of GW170817

2017
2017

Science's Breakthrough of the Year
IOP Physics World Breakthrough of the Year
to the multi-messenger astronomy authors of the publication
“Multi-Messenger Observations of a Binary Neutron Star Merger”,
The Astrophysical Journal Letters, 848, L12

DISTINGUISHED LECTURESHIPS

| | |
|------|---|
| 2018 | Frank Edmondson Lectureship, Indiana University |
| 2018 | Robert Hofstadter Lectureship, Stanford University |
| 2018 | Charles Lauritsen Lectureship, Caltech |
| 2017 | Raymond Sackler Lectureship, Canadian Institute for Theoretical Astrophysics (CITA) |
| 2017 | Frances Walker Lectureship, George Washington University |

SERVICE IN THE PHYSICS AND ASTRONOMY COMMUNITY

- Co-Chair, 3G Science Team, GWIC 3G Subcommittee on 3rd Generation Gravitational-Wave Detectors (2017 –)
- Member, OzGrav Scientific Advisory Committee, ARC Centre of Excellence for Gravitational Wave Discovery (2017 –)
- Elected Member of the Executive Committee of the LIGO Scientific Collaboration (2017 – 2019)
- Member, Board, McGill Space Institute (2016 –)
- Elected Member, Executive Board of Directors, LSST Corporation (2016 – 2018)
- Member, National Research Council's Committee on Astronomy and Astrophysics (NRC CAA), Joint Committee of the Space Studies Board and the Board on Physics and Astronomy, National Academy of Sciences (2015 –)
- Elected Trustee, Aspen Center for Physics (2014 –)
- Elected Member, Aspen Center for Physics Advisory Board (2007 –)
- Member, Advisory Board of NANOGrav Pulsar Timing Array (2015 – 2016)
- Presenter and Member, Panel on Gravitational-Wave Astrophysics for the Board on Physics and Astronomy, National Academy of Sciences (2015, 2016)
- Member, Nominating Committee for the APS Division of Astrophysics (2014, 2001)
- Member, Scientific Advisory Board of the Albert Einstein Max Planck Institute for Gravitational Physics, Potsdam, Germany (2013 – 2018)
- Elected to the Chair line of the Executive Committee APS Division of Computational Physics (2010 – 2014; Vice-Chair, Chair Elect, Chair, Past Chair)
- Invited Scientific Editor for *Scientific Reports* (online journal in all areas of natural sciences by the Nature Publishing Group) (2011 – 2015)
- Member, Astrophysics Subcommittee of the NASA Advisory Council Science Committee (2010 – 2013)
- Chair, APS Division of Computational Physics Program Committee for both March and April 2012 meetings (2011-2012)
- Member, APS GGR Nominating Committee (2012)
- Reviewer of Astro2010 Science Frontier Panels' and Program Prioritization Panels' Reports, National Research Council and National Academy of Sciences (Fall 2009 and Winter 2010, respectively)
- Member of the Publications and Presentations committee of the LIGO Scientific Collaboration (2008 – 2012)

- Invited Panelist on the Discovery Panel at one (of five) of NASAs Future Forums (http://www.nasa.gov/50th/future_forums), Adler Planetarium & Astronomy Museum, Chicago (2008)
- Member of the APS Maria Goeppert Mayer Award Selection Committee (2008)
- Elected Member, Executive Committee of the APS Division of Astrophysics (2007 – 2009)
- Elected Member, Executive Committee of the AAS High Energy Astrophysics Division (2007 – 2009)
- Elected Member, Executive Committee of the APS Topical Group on Gravity and Relativity (2005 – 2008)
- Co-Editor of the Centennial Physics Reports volume in honor of Hans Bethe (with Gerry Brown and Ed van den Heuvel; 2006 – 2007)
- Member, *Chandra* Users Committee (CUC) (2004 – 2007)
- Member, LIGO Program Advisory Committee (PAC) (2004-2008)
- Member, Operating Council for the Virtual School of Computational Science and Engineering, Great Lakes Consortium for Petascale Computing
- MentorNet Participant with two female physics graduate students advisees (2006 – 2009)
- Member, Visiting Committee of the Gravitational Wave group at NASA-GSFC (2005)
- Member, American Astronomical Society (AAS), American Physical Society (APS), and LIGO Scientific Collaboration
- Panel and Individual Reviewer for NSF (Astronomy & Physics), NASA, The Astrophysical Journal (Main Journal and Letters), Astronomy and Astrophysics, Nature, Classical and Quantum Gravity, Living Reviews in Relativity, Research Corporation, and Monthly Notices of the Royal Astronomical Society
- Organizer and Presenter of numerous public outreach events in astronomy
- Scientific Conference Organizations
 - “Deciphering the Violent Universe”, Playa del Carmen, Mexico, December 10–15, 2017
 - “Pulsar Astrophysics - The next 50 years”, IAU Symposium 337, Jodrell Bank Observatory, September 4–8, 2017
 - “Astrophysics of Gravitational Radiation Sources and Multimessenger Astronomy in the Era of LIGO Detections”, Aspen Center for Physics, July 9 - August 6, 2017
 - “What is Next for Gravitational-Wave Astronomy?”, Dawn III Workshop, Syracuse, NY, July 6 – 7, 2017
 - “Supernovae: The LSST Revolution”, CIERA, Northwestern U., May 31 – June 2, 2017
 - “Astrophysics in the Era of Gravitational-Wave and Multi-messenger Observations”, Joint Space-science Institute (JSI) Annual Conference, College Park, Maryland (November 9 – 11, 2016)
 - “The Magnetar Link in Neutron Stars, Gamma Ray Bursts and Supernovae”, Session at COSPAR 2016 (Committee on Space Research), Istanbul, Turkey (July 30 - August 7, 2016)
 - Midwest Relativity Meeting 2015, Northwestern University, Evanston, IL, USA (October 1 – 3, 2015) – Chair of Scientific and Local Organizing Committees
 - “The Impact of Massive Binaries Throughout the Universe”, Lorentz Center – International Center for Workshops in the Sciences, The Netherlands (June 29 – July 3, 2015)

- “Black Holes in Dense Star Clusters”, Aspen Center for Physics, (January 17 – 22, 2015)
- “Extreme Astrophysics in an Ever-Changing Universe - Celebrating Prof. J. H. Seiradakis’ 40-yr Career”, Ierapetra, Crete, Greece (June 16 – 20, 2014)
- “Stellar Tango at the Rockies ’14”, Lake Louise, Alberta, Canada (March 23 – 28, 2014)
- Conference on “X-ray Binaries, 50 Years Since the Discovery of Sco X-1”, Boston, MA, USA (July 17 - 19, 2012)
- Aspen Center for Physics Summer Workshop on “The Physics of Feedback Processes and Their Role in Galaxy Evolution”, Aspen Center for Physics (June 10 – July 1, 2012)
- CIERA Inaugural Conference, “The Future of Astronomy: Fellows at the Frontiers of Science”, Northwestern University, Evanston, IL, USA (August 31 – September 3, 2011)
- Aspen Center for Physics Summer Workshop on “Stellar and Intermediate Mass Black Holes: Gravitational Physics and Radiation Sources Across the Universe”, Aspen Center for Physics (June 5 – 26, 2011)
- Conference on “Binary Star Evolution: Mass Loss, Accretion, and Mergers”, Mykonos, Greece (June 22 – 25, 2010)
- Aspen Center for Physics Winter Conference on “Formation and Evolution of Black Holes”, Aspen Center for Physics (February 14 – 20, 2010)
- Conference on “40 Years of Pulsars: Millisecond Pulsars, Magnetars and More”, McGill University, Montreal (August 13 – 17, 2007)
- Conference on “Extreme Solar Systems”, Santorini, Greece (June 25 – 29, 2007)
- International Astronomy Conference on “The Multicoloured Landscape of Compact Objects and their Explosive Origins: Theory vs. Observations”, Cefalu, Italy (June 11 – 24, 2006)
- Summer Aspen Workshop on “LISA Data: Analysis, Sources and Science”, Aspen Center for Physics (May 29 – June 19, 2004)
- Ninth Gravitational Wave Data Analysis Workshop (GWDAW), Annecy, France, (December 15 – 18, 2004)
- Workshop “Imagining the Future: Gravitational Wave Astronomy”, Penn State Univ. (October 27 – 30, 2004)
- Symposium on Gravitational Waves in Astronomy and Fundamental Physics at the COSPAR General Assembly, Paris (July 18 – 25, 2004)
- Second Gravitational Wave Phenomenology Workshop at the Center for Gravitational-Wave Physics, Penn State (November 6 – 8, 2003)
- Lead Organizer of the Focus Session “Stellar Populations and Gravitational-Wave Observations” at the Center for Gravitational-Wave Physics, Penn State (December 2 – 5, 2002)
- Fourth International LISA Symposium (July 19 – 24, 2002)
- High Frequency Gravitational Waves at the SPIE Symposium on Astronomical Telescopes and Instrumentation (August 22 – 28, 2002)
- Summer Aspen Workshop “Compact Objects in Dense Star Clusters” (June 10 – July 1, 2001)

SERVICE AT NORTHWESTERN UNIVERSITY

- Department of Physics and Astronomy
 - Awards Committee, 2017 –
 - Associate Chair, 2015 – 2017
 - Search Committee for Faculty Hire in Astronomy, Chair (2015 – 2016) and Member (2016 – 2017)

- Computer Committee, 2013 – 2015
- Search Committee for Faculty Hire in Theoretical Astrophysics, Chair (2012 – 2013)
- Director of Undergraduate Studies (2007 – 2012)
- Undergraduate Curriculum, Member (2007 – 2008, & 2009 – 2010)
- Undergraduate Curriculum, Chair (2008 – 2009, 2010 – 2011, 2011 – 2012)
- Graduate Admissions, Chair (2003) and Member (2002, 2004, 2006)
- Graduate Advising and Curriculum, Member (2006)
- Departmental Colloquium, Member (2006 – 2007)
- Long Range Vision, Member (2006 – 2007)
- Grade Dispute Committee, Member (2002 – 2003)
- WCAS College of Arts and Sciences
 - Member of Senior Hiring Search Committee in Math Dept (2015–2016)
 - Member of the Committee for WCAS Strategic Planning (2013 – 2015)
 - Member of Ad Hoc Tenure Committees (2010 – 2011, 2014 – 2015)
 - Elected Member of the Standing Committee on Tenure (2006 – 2008, & 2009 – 2010)
 - Guest speaker for WCAS Awards Ceremony (2008)
- University Administration
 - Member of the Provost Search Faculty Advisory Committee to the President (2016)
 - Member of the McCormick CS+X Advisory Committee (2016 -)
 - Member of the Computer Science Barris Chair Search Committee (2016 -)
 - Member of the Program Review Council (2015 – 2017)
 - Member of the Executive Committee of the Northwestern Data Science Initiative (2015 – 2017)
 - Member of the Program Review Committee, Dept. of Neurobiology, WCAS (2014-2015)
 - Ad Hoc Member of the Limited Submissions Selection Committee (2015, 2016)
 - Member of the Faculty Leadership Team on Big Data Science and Engineering (2012 – 2015)
 - Limited Submissions Selection Committee (2011 – 2012)
 - Smithsonian–CIC TGS Fellowship Committee (2011)
 - Interviewer of VPIT/CIO candidates (2010) and of candidates for the NUIT position of Director of Research Computing (2010 – 2011)
 - Physical Sciences & Engineering Advisory Board, Member (2009 – 2011)
 - Purple Sky Workgroup, NU Strategic Planning (2010)
 - Research and Administrative Computing Committee (2007 – 2010)
 - RACC Subcommittee on Research Computing, Co-Chair (2007 – 2010)
 - WCAS Dean Search Committee (2007 – 2008)
 - Goldwater Scholarship Selection Committee (2005 – 2009)
 - Panelist for the Survival Skills Program for Junior Faculty and Graduate Students (2010)
 - University Committee on Information Technology (2006 – 2008)

RESEARCH ADVISING & MENTORING

- **Postdoctoral Research Fellows and Associates**

- Current:
 - Pablo Marchant (2017 –)
 - Chris Pankow (2015 –)
- Past:
 - Laura Sampson (2015 – 2016)
 - Tyson Littenberg (2012 – 2015; Research Scientist, NASA Marshall Space Center)
 - Laura Trouille (2010 – 2014; Director of Citizen Science, Adler Planetarium)
 - Francesca Valsecchi (2012 – 2013; Senior Data Scientist and Consultant)
 - Nate Bode (2011 – 2012; Consulting Industry)
 - Daryl Haggard (2010 – 2013; Assistant Professor, McGill University, Canada)
 - Will Farr (2009 – 2013; Associate Professor, U. of Birmingham, UK)
 - Diego Fazi (2009 – 2012; Staff, Argonne National Lab, USA)
 - Smadar Naoz (2009 – 2010; Assistant Professor, UCLA, USA)
 - Ilya Mandel (2007 – 2009; Professor, U. of Birmingham, UK)
 - Marc van der Sluys (2006 – 2009; Research Associate, Radboud Univ., The Netherlands)
 - Bart Willems (2003 – 2009; HPC Technology Director, Atipa Technologies, USA)
 - Richard O’Shaughnessy (2003 – 2007; Assistant Professor, RIT, USA)
 - Philippe Grandclement (2001-2003; CNRS Permanent Researcher, Paris, France)
 - Natasha Ivanova (2001-2005; Professor, U. of Alberta, Canada)
 - Chris Belczynski (2001-2004; Professor, Warsaw U., Poland)

• **Ph.D. Thesis Students**

- Current:
 - Chase Kimball (2017 –)
 - Eve Chase (2016 –)
 - Scott Coughlin (2015 –)
 - Kyle Kremer (2015 –)
 - Mike Zevin (2014 –)
 - Fani Dosopoulou (2013 –)
 - Niharika Sravan (2011 – 2013, 2015 –)
- Past:
 - Ben Farr (2009 – 2014, Assistant Professor, U. of Oregon, USA)
 - Tsing-Wai Wong (2007 – 2013, Banking Sector, Hong-Kong)
 - Francesca Valsecchi (2006 – 2012, Senior Data Scientist and Consultant)
 - Vivien Raymond (2008 – 2012, Assistant Professor, Cardiff U., U.K.)
 - Tassos Fragos (2004-2010, SNSF Ambizione Fellow, Geneva Observatory, Switzerland)
 - Jeremy Sepinsky (2003-2008, Research Scientist, CNA Corporation)
 - Chunglee Kim (2001-2006, Postdoctoral Researcher, Seoul National U. Korea)
 - Chris Belczynski (2000-2001, Professor at Warsaw U., Poland)

• **Undergraduate Research Students¹**

- Current:
 - Matthew Walsh (2017 –)
 - Ethan Marx (2016 –)
 - Slobodan Mentovic (2015 –)
- Past:
 - Chase Kimball (2015 – 2017; Award for the Best Thesis Award in Physics & Astronomy)
 - Jessie Duncan (2015 – 2016; U Minnesota Physics grad student)
 - Leah Perri (2014 –2016; UCLA Astronomy grad student)
 - Anya Kogan (2015 – 2016)
 - Ben Sandeen (2013 –2015)

¹Names marked with a • indicate students who completed an Honors Senior Thesis under my supervision.

Atul Adhikari (2014)
 Claudeson Azuri (2014)
 Scott Coughlin (2011 – 2014; Cardiff U. Physics grad student)
 James Hu (2014)
 Andrew Jennings (2014)
 Aditya Manikantan (2014)
 Sarah Matthews (2013)
 Connor Skeehan (2012)

- Dan Stevens (2009 – 2012; Award for the Best Thesis Award in Physics & Astronomy, The Ohio State University astronomy grad student)
- Kyle Kremer (2009 – 2012)
- Asna Ansari (2009 – 2011)
- Andrew Loveridge (2009 – 2011; Award for the Best Thesis Award in Integrated Science Program; UWMadison astronomy grad student)
- Michael Tremmel (2007 – 2011; UWashington astronomy grad student)
- Jeff Andrews (2006 – 2009; Columbia U. astronomy grad student)
- Laura Blecha (2002-2005; NASA Einstein/NPP Prize Postdoctoral Fellow, U. Maryland)

Michael Downey (2006)
 Matthew Goss (2009 – 2010)
 David Guarrera (2003; MIT Physics grad student)
 Cy Hendrickson (2002)

- Michael Henninger (2002-2004; Peace Corps; MIT Physics grad student)
- Mia Ihm (2002-2005; UC Berkeley Physics grad student; NSF Graduate Fellow)
- Jeff Kaplan (2003-2007; Goldwater Scholar; Award the Best Thesis Award in Physics and Astronomy; Caltech Physics grad student)

James Kath (2006; Goldwater Scholar; Harvard Physics grad student)
 Todd Levin (2003-2005)

- Tim Linden (2006 – 2008; Award the Best Thesis Award in Physics and Astronomy and in the Integrated Science Program; UCSC Physics grad student)
- Alex Muratov (2005-2007; Michigan Astronomy grad student)

Philip Nutzman (2002-2004; Harvard Astronomy grad student)
 Aisha Saleem (2005-2007)
 Tiffany White (SROP 2002)

TEACHING

- Data Science Challenges in Earth and Astrophysical Sciences (Graduate)
2016-2017, 2017-2018
- Astrophysics for Integrated Science Program (Undergraduate)
2008, 2009, 2010, 2011, 2015
- Stellar Astrophysics (Undergraduate/Graduate)
2003, 2004, 2007, 2007, 2014, 2015, 2016
- Advanced Seminar on Compact Objects (Graduate)
2012
- Freshman Seminar (Cosmic Extremes and Record Holders)
2010, 2011
- Stellar Structure and Evolution (Graduate)
2003, 2009
- Introduction to Computational Physics (Undergraduate)
2002, 2003, 2004, 2006, 2007

FUNDING SOURCES²

- **Current³:**

- MRI: Acquisition of a High-Performance Computing Cluster to Unveil the Sources of Gravitational Waves (PI: V. Kalogera)

NSF - MRI, Grav. Phys; 8/2017 – 7/2018; \$349,924

Supports the purchase of an HPC cluster.

- Hubble Fellowship for Wen-fai Fong (PI: V. Kalogera)

NASA; 8/2017 – 7/2018; \$130,449

Supports Fong's independent research program.

- Variable Classes Revealed! A New Citizen Scientist, Astronomer, and Computer Scientist Project to Meet the Stellar Classification Challenge in the LSST Era (PI: A. Miller; V. Kalogera one of co-Is)

LSST Corporation; 7/2017 – 12/2018; \$40,000

Supports the development of an LSST-related citizen-scientist program.

- Black Holes in Dense Star Clusters (PI: F. Rasio; V. Kalogera one of co-PIs)

NSF – AAG; 6/2017 – 5/2020; \$468,070

- Gravitational-Wave Inference from Binary Compact Objects (PI: V. Kalogera)

NSF – Support of LIGO Research; 9/2016 – 8/2019; \$480,000

Supports VK's programmatic work as a member of the LIGO Scientific Collaboration, focused on the development of analysis methods for source parameter estimation from gravitational-wave signals.

- The LSST Data Science Fellowship Program (PI: V. Kalogera)

LSST Corporation; 8/2016 – 7/2019; \$500,000

Supports a LSST-focused Data Science Training Program for Graduate Students.

- Supernova Progenitors, Stellar Remnants, and their Binary Companions (PI: V. Kalogera)

NSF – AST; 9/2015 – 8/2018; \$402,511

Supports the development of a next-generation binary population modeling tool with applications in the formation of high-mass X-ray binaries and core-collapse supernova progenitors.

- INSPIRE: Glitch Zoo: Teaming Citizen Science with Machine Learning to Deepen LIGOs View of the Cosmos (PI: V. Kalogera)

NSF – INSPIRE; 9/2015 – 8/2018; \$999,663

Supports an interdisciplinary, multi-institutional project for a citizen-science project coupled to machine-learning methods that will solve the problem of detector characterization for Advanced LIGO and will allow the study of a unique setup of human-computer interaction.

- Engaging Introductory Astronomy Students in Authentic Research through Citizen Science (PI: D. Meyer; V. Kalogera one of co-Is)

NSF – EHR-IUSE; 9/2015 – 8/2018; \$302,242

Supports the development of an innovative education program for large astronomy classes for non-majors.

- NRT-DESE: Training in Data-Driven Discovery - From the Earth and the Universe to the Successful Careers of the Future (PI: V. Kalogera)

NSF – DGE; 04/2015 – 03/2020; \$3,105,701

Supports the development of an innovative graduate training program in Data-Enabled Science and Engineering in connection to research for LIGO, LSST, and Earthscope. The trainees will have access to a wide range of interdisciplinary training opportunities: from courses and summer focus schools to internships, professional transferable skills, and citizen-science project development.

- Modeling the Origins of Sub-subgiant Stars (PIs: V. Kalogera and Aaron Geller)

NASA - Hubble Space Telescope Science Institute - Theory Program; 01/2015 – 12/2017; \$69,237

Supports computational modeling to uncover the nature of sub-subgiant stars.

²Total amount of funding as PI: \$15,250,496

³Total amount of current funding as PI: \$6,256,032

– REU Site: Preparing a Diverse Workforce through Interdisciplinary Astrophysics Research (PI: V. Kalogera)

NSF – REU Sites, Astronomy Division; 9/2014 – 8/2018; \$287,784

Supports a group of REU summer students offering a wide range of interdisciplinary projects anchored on astronomy.

– Dynamical Modeling of Dense Star Clusters with a Parallel Monte Carlo Code (PI: F. Rasio; V. Kalogera one of co-PIs)

NASA – ATP; 8/2014 – 7/2018; \$598,277

Supports a broad range of projects related to dense stellar clusters.

• **Past⁴:**

– A Novel Approach to the Common Envelope Evolution (PI: V. Kalogera)

NASA – SAO/Chandra; 1/2016 – 2/2018; \$75,000

Supported the development of a new physical treatment of the common-envelope phase in interacting binaries.

– L’Oreal USA Fellowship For Women in Science: Laura Sampson (PI: V. Kalogera)

American Association for the Advancement of Science/L’Oreal USA, Inc.; 10/2013 – 3/2017; \$30,000

Partially supported CIERA Fellow Laura Sampson.

– CDS&E: Black Holes in Dense Star Clusters (PI: F. Rasio; V. Kalogera one of co-PIs)

NSF – Astronomy Division and CDS&E program; 9/2013 – 8/2016; \$448,377

Supports research in the development of tools and algorithms in dense stellar cluster dynamics in collaboration with computer scientists; projects focus on the evolution and fate of black holes in clusters.

– Gravitational-Wave Astrophysics: Getting Ready for the Advanced LIGO Era (PI: V. Kalogera)

NSF – Support of LIGO Research; 9/2013 – 8/2016; \$464,263

Supports VK’s programmatic work as a member of the LIGO Scientific Collaboration, focused on the development of analysis methods for source parameter estimation from gravitational-wave signals.

– New GK-12: Reach For the Stars: Computational Models for Teaching and Learning in Physics, Astronomy, and Computer Science (PI: V. Kalogera)

NSF – DGE; 06/2010 – 05/2016; \$2,722,370

Supports STEM graduate fellows (US citizens only) to spend 10–15 hours per week in K-12 classrooms, developing curriculum material that connects to their computational research.

– Accreting Binary Populations from Billions of Years Ago to the Year 2035 (PI: A. Hornsmeier-Cardiff (GSFC); sub-contract to NU)

NASA – ADP; 01/2012 – 12/2014; \$112,821

Supports the computation of X-ray binary models for a limited grid of different metallicities and binary evolution parameters to be tied to the data of the specific observational program using the current version of the StarTrack code.

– Type 1: Casting a Wide Net: Applied Computational Thinking (PI: K. Jona; V. Kalogera one of four co-PIs)

NSF - Computing Education in the 21st Century (CE21); 11/2011 – 10/2014; \$990,167

Interdisciplinary project that supports two graduate students from the areas of science education and computer science for the assessment of best practices for computational education in high schools.

– Simons Fellowship in Theoretical Physics: Decoding Gravitational-Wave Signals from Compact Object Mergers (PI: V. Kalogera)

Simons Foundation; 04/2013 – 03/2014; \$147,521

Supported a one-year sabbatical leave for the PI.

⁴Total amount of past funding as PI: \$8,994,464

- Gravitational Wave Astrophysics of Binaries with Compact Objects (PI: V. Kalogera)
NSF – Support of LIGO Research; 11/2010 – 10/2013; \$546,153
Supported VK's programmatic work as a member of the LIGO Scientific Collaboration, focused on the development of analysis methods for source parameter estimation from gravitational-wave signals. The renewal of this grant is in the process of becoming official.
- Teacher-Training Workshop: STEM in the 21st century (PI: V. Kalogera)
NASA Illinois Space Grant Consortium (ISGC); 06/2011 – 05/2013; \$8,000
Supported the organization of workshops to disseminate the curriculum models generated by the GK-12 program mentioned earlier.
- Understanding the Youngest X-ray Binary Populations in Low Metallicities (PI: V. Antoniou (SAO); sub-contract to NU)
NASA – ADP; 01/2011 – 12/2012; \$43,130
Supported the computation of X-ray binary models for very young star-formation regions targeted by the observational program, using the current version of the StarTrack code.
- Compact Object Forensics: The Question of Origin (PI: V. Kalogera)
NSF – AST; 11/2009 – 10/2012; \$450,846
Supported research on the formation of black holes and neutron stars through the study of known Galactic X-ray Binaries: for each known system we follow its evolution backwards to uncover the conditions at the time of compact object formation.
- Flip For Physics: Student created Videos of Science Role Models and Careers (PI: V. Kalogera)
American Physical Society (APS); 05/2011 – 10/2012; \$8,000
Supported the deployment of an outreach, informal education project.
- MRI: Acquisition of a Hybrid High Performance Computer Cluster for Gravitational-Wave Source Simulation and Data Analysis (PI: V. Kalogera)
NSF Major Research Instrumentation (MRI); 09/2011 – 08/2012; \$475,000
Supported the purchase of high-performance computing cluster (funds are for capital equipment only). – Binary White Dwarfs: Gravitational Wave Astrophysics and Data Analysis (PI: V. Kalogera)
NASA – ATPF; 06/2009 – 05/2012; \$399,212
Supported LISA-related research focused on the effects of tidal dissipation on the gravitational waveform of close binary white dwarfs and departures from point-mass general relativity.
- ULX in the Most Metal Poor Galaxies (PI: A. Prestwich (SAO); sub-contract to NU)
NASA – SAO; 01/2010 – 12/2011; \$55,653
- A New Computational Tool for X-Ray Binary Modeling: Application to Elliptical Galaxies (PI: V. Kalogera; Science PI: T. Fragos)
NASA – SAO; 01/2010 – 12/2011; \$67,870
- CAREER: Theoretical Studies of Compact Objects in Binary Systems (PI: V. Kalogera)
NSF – CAREER Program; 11/2005 – 10/2010; \$546,153
- Massive Black Hole Binaries with Extreme Mass Ratios (PI: V. Kalogera)
NASA – ATP; 05/2007 – 04/2010; \$281,381
- Galaxies Across the Octaves: A Chandra Legacy Survey of Sings Galaxies (PI: A. Ann Hornschemeier; sub-contract to NU)
NASA – SAO; 01/2008 – 12/2009; \$27,448
- Packard Fellowship in Science and Engineering, David and Lucile Packard Foundation; 10/2002 – 09/2009; \$625,000
- Tidally Interacting Binaries and LISA Astronomy: Waveform and Data Analysis Studies (PI: V. Kalogera)
NASA – BEFS; 06/2006 – 05/2009; \$283,275

- Binary Compact Objects as Gravitational Wave Sources: Modeling and Data Analysis (PI: V. Kalogera)
NSF – Gravitational Physics Program; 11/2004 – 10/2008; \$303,511
- Acquisition of a Versatile High Performance Computing Facility for Gravitational Wave Source Modeling and Student Training (PI: V. Kalogera)
NSF – MRI; 10/2006 – 09/2008; \$416,189
- Adler Public Education Fellowships (PI: V. Kalogera)
Adler Planetarium & Astronomy Museum; 12/2007 - 08/2008; \$37,690
- A Deep X-Ray Survey of the Small Magellanic Cloud (PI: A. Zezas; sub-contract to NU)
NASA – *Chandra* GO Program; 04/2006 – 04/2008; \$14,976
- Discrete X-Ray Source Populations and Star-formation History in Nearby Galaxies (PI: A. Zezas; sub-contract to NU)
NASA – LTSA; 04/2003 – 03/2008; \$85,856
- Gravitational Wave Searches of Spinning Supermassive Black Holes with LISA (PI: M. Ulmer (NU); co-I: V. Kalogera (NU))
Illinois Space Grant Consortium Seed Grant; 03/2007 – 02/2008; \$9,000
- A Chandra Legacy Program: Deep Study of LMXB Populations (PI: V. Kalogera)
NASA – *Chandra* GO Program; 01/2006 – 01/2008; \$50,018
- Understanding the X-Ray Cluster Binary Populations of Nearby Galaxies Revealed by the Chandra Observatory (PI: V. Kalogera)
NASA – Graduate Student Researchers Program; 07/2004 – 06/2007; \$63,000
- Deep X-Ray Imaging of the Fornax Dwarf Galaxy (PI: A. Prestwich (SAO); sub-contract to NU)
NASA/ESA – XMM GO Program; 10/2005 – 09/2006; \$14,002
- Cottrell Scholar Award: Algorithms in Gravitational Wave Astrophysics (PI: V. Kalogera)
Research Corporation; 05/2004 – 05/2006; \$75,000 (overhead free)
- Stellar Sources of Low-Frequency Gravitational Waves (PI: V. Kalogera)
NASA – ATP; 04/2003 – 03/2006; \$253,762
- X-Ray Binary Formation in Elliptical Galaxies: The Role of Dynamical Processes (PI: V. Kalogera)
NASA – *Chandra* Theory Program; 01/2004 – 12/2004; \$75,000
- An Ultra-Deep Study of M101 (PI: K. Kuntz; sub-contract to NU)
NASA – *Chandra* GO Program; 01/2004 – 12/2004; \$27,331
- Binary Compact Objects as Astrophysical Sources of Gravitational Waves (PI: V. Kalogera)
NSF – Division of Physics – Gravitational Physics Program; 11/2001 – 10/2004; \$184,172
- Theoretical Studies of X-Ray Binary Populations in Nearby Galaxies (PI: V. Kalogera)
NASA – *Chandra* Observing Program; 01/2002 – 12/2002; \$54,861

PAST AND UPCOMING INVITED TALKS

In 2018:

- “Multi-Messenger Astronomy with Gravitational Waves”:
 - Joint **Astrophysics Colloquium**, Space Telescope Science Institute and Johns Hopkins University, February 21, 2018
 - Joint **Astronomy Colloquium**, UVa/NRAO, May 24, 2018
 - **Astronomy Colloquium**, Indiana University, September, 2018

- “The Dawn of Gravitational-Wave Astrophysics”:
 - **Robert Hofstadter Lecture, Physics and Applied Physics Colloquium**, Stanford University, April 3, 2018
 - **Charles Lauritsen Memorial Lecture, Physics Colloquium**, Caltech, April 5, 2018
 - **Physics Colloquium**, New York University, April 19, 2018
 - **Joint Astrophysics Colloquium**, Princeton and Institute for Advanced Study, April 24, 2018
- “Einstein’s Waves”:
 - **Robert Hofstadter Public Lecture**, Stanford University, April 2, 2018
 - **Frank Edmondson Public Lecture**, Indiana University, September, 2018

In 2017:

- “The Dawn of Gravitational-Wave Astrophysics”, **Physics Colloquium**, University of Illinois at Urbana-Champaign, December 6, 2017
- “Multi-Messenger Astronomy with Gravitational Waves”, **Astronomy Seminar**, McGill University, November 21, 2017
- “Multi-Messenger Astronomy with Gravitational Waves”, **Sackler Astrophysics Colloquium**, CITA (Canadian Institute for Theoretical Astrophysics), November 17, 2017
- “Einstein’s Waves: New Cosmic Sounds”, **Sackler Public Lecture**, CITA (Canadian Institute for Theoretical Astrophysics), November 16, 2017
- “Gravitational-Wave Astrophysics”, **Walker Lecture**, Physics Department, George Washington University, September 21, 2017
- “Gravitational wave astrophysics for massive stars”, **Invited Talk**, KITP Conference on Phenomena, Physics, and Puzzles Of Massive Stars and their Explosive Outcomes, KITP, UCSB, March 20 – 24, 2017

In 2016:

- “The Promise and Challenges of Gravitational-Wave Astronomy”, **Invited Keynote Opening Lecture**, SCIALOG on Time Domain Astrophysics, Research Corporation, October 13 – 16, 2016
- “Einstein’s Waves: New Cosmic Sounds”, **Public Lecture**, McGill Space Institute, September 29, 2016
- “The First Direct Observation of Gravitational Waves Merging Binaries”, **Invited Talk**, Binary Stars in Cambridge, July 24 - 30, 2016
- “LIGO Discovery of a Binary Black Hole Merger” and “The Dawn of Gravitational-Wave Astrophysics”:
 - Physics Colloquium**, Stanford U., November 29, 2016
 - Physics Colloquium**, McGill U., September 30, 2016
 - ACP Colloquium**, Aspen Center for Physics, July 14, 2016
 - CITA Colloquium**, Canadian Institute for Theoretical Astrophysics, May 26, 2016
 - Institute for Theory and Computation**, Harvard U., May 20, 2016
 - Astronomy Colloquium**, Yale U., May 5, 2016
 - Physics Colloquium**, Argonne National Lab, April 29, 2016
 - Physics Colloquium**, Fermi National Lab, March 23, 2016
 - Theoretical Astrophysics Center Seminar**, U. of California, Berkeley, March 14, 2016
 - Physics Colloquium**, Northwestern U., March 4, 2016
- “Implications of Joint EM/GW Detections”, **Invited Talk** at the 9th Sackler Conference in Theoretical Astrophysics – “The Transient Sky”, Harvard University, May 16 - 19, 2016

- “Gravitational-Wave Astrophysics”, **Invited Talk**, Black Holes 100, Inaugural Conference of the Black Hole Center at Harvard University, April 18-19, 2016
- “Implications of the LIGO Discovery of a Binary Black Hole”, **Invited Plenary Talk combined with Bethe Prize Talk**, Special LIGO Plenary Session, Annual April Meeting of the American Physical Society, April 16 - 19, 2016
- “Gravitational-Wave Transients”, **Invited Talk**, Annual Meeting of the High-Energy Astrophysics Division (HEAD) of the American Astronomical Society (AAS), April 3 - 7, 2016
- “The Era of Gravitational-Wave Astrophysics”, **Invited Talk** to the Committee on Astronomy and Astrophysics, National Academy of Sciences, March 30, 2016
- “The Quest for the Era of Gravitational-Wave Astrophysics”, **Gravity Seminar**, Physics Department, Princeton U., February 12, 2016

In 2015:

- “Astrophysics of Binary Black Holes”, **LIGO/Virgo-Collaborations-wide Colloquium**, November 12, 2015
- “Gravitational Wave Astrophysics: Detections, Electro-Magnetic Followups & Beyond”, **Invited Talk** at High-Energy Large- and Medium-class Space Missions in the 2020’s, June 29 - July 1, 2015
- “Data Analysis: How will plans change after the first detections? What would trigger new analyses or deeper studies?”, **Invited Talk** at What Comes Next for LIGO? Planning for the Post-Detection Era in Gravitational-Wave Detectors and Astrophysics, May 7 - 8, 2015
- “Status and Prospects for Gravitational-Wave Physics and Astronomy”, **Invited Talk** to the Board of Physics and Astronomy of the National Academy of Sciences (one of three co-presenters along with Rai Weiss and Tom Prince), April 25, 2015
- “Astronomy with LIGO”, **Astrophysics Colloquium**, UCLA, February 25, 2015

In 2014:

- “Binary Compact Mergers: Localization and Astrophysics with Gravitational-Wave Sources”, Talk at Swift: 10 Years of Discovery, Rome, Italy, Dec 2 - 5, 2014
- “Searching for Electromagnetic Counterparts of Gravitational-Wave Transients”, Talk at The Universe of Digital Sky Surveys, Naples, Italy, Nov 25 - 28, 2014
- “Localizing Gravitational-Wave Binaries: Challenges and Solutions”, Talk at Second Annual GMT Community Science Meeting, Washington DC, USA, Oct 6 - 8, 2014
- “Gravitational-Wave Astrophysics with LIGO/Virgo”, **Invited Review** at NEB16 - Recent Developments in Gravity, Mykonos, Greece, Sep 17 - 20, 2014
- “Astronomy with LIGO”, **Astronomy Colloquium**, Harvard University, March 13, 2014
- “Gravitational-Wave and Neutrino Messengers”, **Invited Review** at Gamma-Ray-Bursts/Supernovae/Magnetars Thinkshop, Bormio, Italy, Jan 20 - 24, 2014

In 2013:

- “Probing the Core Collapse Mechanism with Binaries”, Talk at Conference on Supernovae, Yukawa Institute for Theoretical Physics, Kyoto University, Japan, Oct 28 - Nov 1, 2013

In 2012:

- “Decoding Signals from Double Compact Objects”, **Astronomy Colloquium**, Yale University, March 1, 2012

In 2011:

- “The Quest for Understanding the Birth and Evolution of Compact Objects”, **Invited Talk**, Clay Fellows Symposium - Tenth Anniversary, Harvard-Smithsonian Center for Astrophysics, April 7, 2011

In 2010:

- “Population Modeling of X-Ray Binaries”
Invited Review Talk at International Conference *High Energy View of Accreting Objects: AGN and X-ray Binaries*, October 5-14, 2010; astro.physics.uoc.gr/Conferences/xworkshop/
- “Binary Compact Objects and their Powerful Astrophysics”
Astronomy Colloquium, Harvard University, Cambridge, MA, March 18, 2010

In 2009:

- “Extreme Objects in the Universe”
Invited Introductory Talk for session “Extreme Objects in the Universe” at the 15th Annual German-American Kavli Frontiers of Science symposium, June 4-7, 2009, Irvine, CA, sponsored by the National Academy of Science
- “Binary Compact Objects and their Powerful Astrophysics”
Astronomy Colloquium, The Ohio State University, April 23, 2009

In 2008:

- “Black Holes and Neutron Stars: From Explosive Birth to Powerful Mergers”
Scientific Colloquium, NASA Goddard SFC, October 17, 2008
- “Binary Compact Objects and Their Powerful Astrophysics”
Astronomy Colloquium, University of Chicago, April 30, 2008
- “Neutron Stars and Black Holes: Birth, Gamma-Ray Bursts, and Gravitational Waves”
APS Maria Goeppert-Mayer Award Talk, APS April Meeting, April 12-16, 2008
- “The Origin of Black Holes”
Undergraduate Seminar at Rutgers, The State University of New Jersey, April 1, 2008
- “Binary Compact Objects and Their Powerful Astrophysics”
Astronomy Colloquium at Rutgers, The State University of New Jersey, March 31, 2008
- “Neutron Stars and Black Holes: Their Birth and the Detection of Gravitational Waves”
General Colloquium at the Aristotle University of Thessaloniki, Greece, March 5, 2008
- “The Birth of Neutron Stars and Black Holes”
Invited Talk at the First Midwest Conference for Undergraduate Women in Physics held at the University of Michigan, Ann Arbor, Michigan, January 19-20, 2008

In 2007:

- “Low-Mass X-Ray Binary Models for Ellipticals NGC3379 and NGC4278”
Talk at “A Population Explosion: The Nature and Evolution of X-ray Binaries in Diverse Environments” in St. Petersburg Beach, Florida, November 2, 2007.

- “Black Holes and Neutron Stars: Paradigms Being Challenged”
Talk at the Packard Fellows Symposium in Monterey, California, September 2007
- “Neutron Stars: Formed, Spun and Kicked”
Invited Review at “40 Years of Pulsars: Millisecond Pulsars, Magnetars, and More” held at McGill University, Montreal, August 12-17, 2007
- “Understanding LMXBs in Elliptical Galaxies”
Talk at the AAS Meeting held Seattle January 5-10, 2007

In 2006:

- “Accreting Compact Objects in Nearby Galaxies”
Physics Colloquium at Michigan State University, East Lansing, November 9, 2006

In 2005:

- “Compact Objects in Binaries”
Invited Colloquium at the Institute of Theory and Computation, Harvard-Smithsonian Center for Astrophysics, Boston, December 2, 2005
- “Theoretical Models of X-Ray Sources in Clusters”
Invited Review at the Modest-6 Meeting, Northwestern University, August 29-31, 2005
- “X-Ray Binaries in Nearby Galaxies”
Invited Talk at Close Binaries in the 21st Century, Syros, Greece, June 27-30, 2005
- “Stellar Black Hole Mergers with Intermediate Mass Black Holes: Event Rate for LISA”
Talk at the Aspen Summer Workshop LISA Data: Analysis, Sources and Science, May 29 - June 19, 2005
- “Astrophysics of Gravitational Wave Sources”
Special Physics Colloquium, Northwestern University, May 25, 2005
- “LISA Sources and Astrophysics: Tides in White Dwarfs and Mass Segregation in Galactic Centers”
Talk at LISA Workshop, Penn State University, May 12-13, 2005

In 2004:

- “Expectations for Gravitational-Wave Detection from Binary Inspirals”
Invited Review at the 14th Workshop on General Relativity and Gravitation, Kyoto, Japan, November 29 - December 3, 2004.
- “The Formation of Relativistic Double Neutron Stars”
Special Astronomy Colloquium, McGill University, Montreal, Canada, August 24, 2004.
- “X-Ray Binaries and Young Stellar Clusters”
Invited Talk at Massive Stars in Interacting Binaries, Montreal, Canada, August 16-20, 2004.
- “Black Hole Formation in X-Ray Binaries”
Invited Talk at the International Astrophysics Conference on Interacting Binaries: Accretion, Evolution and Outcomes, Cefalu, Sicily, July 4-10, 2004.
- “Galactic Double Neutron Stars for LISA”
Invited Talk at the 5th International LISA Symposium, ESTEC, Noordwijk, The Netherlands, July 12-15, 2004
- “The Most Relativistic Double Pulsar: Implications for Gravitational-Wave Detection and Neutron-Star Formation ”
Joint Tufts/CfA/MIT Seminar, Harvard University, February 10, 2004

- “Eccentric PSR-WD Binaries”
Invited Talk, at the Winter Aspen Conference on Binary Pulsars, Aspen Center for Physics, January 11-17, 2004
- “Inspiring Compact Objects: Detection Expectations”
Invited Talk, at International Conference on Gravitation and Cosmology, Kochi, India, January 5-10, 2004

In 2003:

- “Accreting Black Holes in the Galaxy and Beyond...”
High-Energy Astrophysics Division Lunch Seminar, at Harvard-Smithsonian Center for Astrophysics, December 10, 2003
- “The Milky Way Reveals a New Relativistic Binary Pulsar: Implications for Gravitational Wave Detection”
Astronomy Colloquium, MIT, December 9, 2003
- “X-ray Binaries in Nearby Galaxies”
Invited Talk, at IAU Colloquium 194: Compact Binaries in the Galaxy and Beyond, LaPaz, Mexico, November 17-22, 2003
- “Stellar Populations and Gravitational Wave Observations”
Invited Talk, at the Second Gravitational Wave Phenomenology Workshop, Penn State University, November 6-8, 2003
- “Double Compact Objects: Detection Expectations”
Physics & Astronomy Colloquium, Louisiana State University, October 16, 2003
- “Binary Pulsars with Massive White-Dwarf Companions”
Invited Talk, at the Gravitational-Wave Advanced Detector Workshop, Aspen Center for Physics, February 2-8, 2003
- “Populations of X-Ray Binaries in Nearby Galaxies”
Invited Review, at Kavli ITP Conference on Globular Clusters: Formation, Evolution, and the Role of Compact Objects, Santa Barbara, January 27-31, 2003
- “X-Ray Binaries in Nearby Galaxies”:
Astronomy Colloquium, University of Michigan, December 4, 2003
Astronomy Colloquium, University of Illinois at Urbana, March 4, 2003
Astronomy Colloquium, University of Chicago, February 12, 2003
Astronomy Colloquium, LLNL, January 24, 2003
Astronomy Colloquium, University of California at Berkeley, January 23, 2003
Astronomy Colloquium, University of Wisconsin, January 21, 2003

In 2002:

- “What can Gravitational Waves tell us about Binary Compact Objects?”
Invited Talk, Focus Session “Stellar Populations and Gravitational-Wave Observations”, at the Center for Gravitational-Wave Physics, Penn State, December 2-5, 2002
- “Inspiral Signals from Double Neutron Stars”
Invited Talk, in Radio Pulsars, Greece, August 26-29, 2002
- “Binary Compact Object Inspiral”
Invited Talk, Astronomical Telescopes and Instrumentation, Astronomy Outside the EM Spectrum, Hawaii, August 22-28

- “Gamma-Ray Bursts and Gravitational Waves”
Invited Talk, Harvard Conference on Gamma-Ray Bursts: The Brightest Explosions in the Universe, Harvard University, May 20-23, 2002
- “Double Compact Objects as Gravitational-Wave Sources: What can we learn?”
Astronomy Colloquium, Indiana University, March 19, 2002
- “Formation and Evolution of Black-Hole X-Ray Binaries”
Invited Review at Black Holes: Theory Confronts Reality, Three Years Later, Institute for Theoretical Physics, Santa Barbara, February 25-28, 2002
- “NS-NS Inspiral: Implications for Gravitational Wave Detection and Connections to Gamma-Ray Bursts”
Invited Talk at a Special HEAD Session on Gravitational Wave and High Energy Astrophysics, 199th Meeting of the American Astronomical Society, Washington DC, January 6-10, 2002

In 2001:

- “Gravitational Waves and Stellar Populations”
Invited Talk, at the Gravitational Wave Phenomenology Workshop, Penn State, November 6-8, 2001
- “Double Compact Objects as Gravitational-Wave Sources”
Physics Colloquium, Univ. of Wisconsin at Milwaukee, October 26, 2001
- “Gravitational Waves from Compact Object Inspiral: Detection Prospects and Challenges”
Clay Fellowship Colloquium, Harvard-Smithsonian Center for Astrophysics, April 26, 2001
- “Predictions for GW Detection of Compact Object Inspiral Events”
Invited Review, at the Aspen Winter Conference on Gravitational Waves, Aspen, February 4 - 10, 2001