

Curriculum Vitae  
**SALLY OEY**

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## RESEARCH INTERESTS

- Massive star populations:  
Stellar properties, clustering, field stars, initial mass function, star formation
- Massive star radiative feedback:  
H II ISM and nebulae, Lyman continuum emitters, photoionization
- Massive star mechanical feedback:  
Multi-SN superbubbles and superwinds, multiphase interstellar and intergalactic medium
- Massive star chemical feedback:  
Galactic chemical evolution of the Milky Way and other galaxies, enrichment processes

## EDUCATION

*University of Arizona*, Tucson, AZ: Ph.D. 1995, Astronomy  
*Bryn Mawr College*, Bryn Mawr, PA: A.B. 1986, Physics and Latin

## POSITIONS

*University of Michigan*, Ann Arbor, MI, USA  
Professor of Astronomy, College of Literature, Science, and the Arts (LSA). 09/13 – present  
Associate Professor of Astronomy. 09/09 – 08/13  
Assistant Professor of Astronomy. 07/04 – 08/09

*Lowell Observatory*, Flagstaff, AZ, USA  
Associate Astronomer. 02/04 – 06/04  
Assistant Astronomer. 02/01 – 02/04

*Space Telescope Science Institute*, Baltimore, MD, USA  
1998 STScI Institute Fellow. 10/98 – 01/01

*Institute of Astronomy, University of Cambridge*, Cambridge, UK  
Institute Postdoctoral Research Fellow in Observational Astronomy. 11/95 – 09/98

Member, International Astronomical Union  
Member, American Astronomical Society  
Member, American Association for the Advancement of Science

**ADJUNCT AND VISITING POSITIONS**

University of Michigan Member, Michigan Institute for Research in Astrophysics	01/14 – present
Elsevier B.V. Scientific Editor, <i>New Astronomy Reviews</i> , an International Review Journal.	02/11 – 08/14
Cornell University / National Atmospheric and Ionospheric Center (NAIC), Ithaca, NY, USA Visiting Scientist.	08/11 – 09/11
Institute of Astronomy, University of Cambridge, Cambridge, UK IoA Visiting Scientist.	04/11 – 06/11
National Optical Astronomy Observatories (NOAO), Tucson, AZ, USA Kitt Peak National Observatory, Visiting Scientist.	01/11 – 03/11
University of Michigan Affiliated faculty, Museum Studies Program	09/10 – 07/13

**PRIZE FELLOWSHIPS and AWARDS**

Elected Senior Fellow, Michigan Society of Fellows (declined)	2011
FACULTY EARLY CAREER DEVELOPMENT AWARD (CAREER), National Science Foundation	2003 – 2008
1999 <i>Annie Jump Cannon Award</i> , American Astronomical Society and American Association of University Women	1999

**POSTDOCS AND STUDENTS**

## Postdocs and Postbacs:

Dr. Jesús López-Hernández	01/14 – present
Jessica Kellar	01/13 – 08/13
Dr. Joel Lamb	09/12 – 06/13
Dr. Eric Pellegrini	07/09 – 05/12
Dr. Dan Hanish	12/08 – 03/10
Dr. Carolina Kehrig	02/08 – 06/09
Dr. Thomas Bensby	10/04 – 07/07
Greg Walth	01/04 – 06/04
Dr. Nichole King	11/02 – 05/03

## Ph.D. Students:

Anne Jaskot, Ph.D. 2014: <i>HI Gas Cycles and Lyman Continuum Optical Depth in Low-Redshift Starbursts</i>	09/09 – 08/14
Jordan Zastrow, Ph.D. 2013: <i>The Effects of Radiative Feedback from Massive Stars: Ionizing Radiation and Its Fate in Starburst Galaxies</i>	09/08 – 08/13
Joel Lamb, Ph.D. 2012: <i>Massive Star Formation in Sparse Environments</i> <b>2013 Ralph Baldwin Prize</b> for best UM Ph.D. thesis in physical science and math	09/06 – 08/12

**TEACHING**

Astronomy 533, “Structure and Content of Galaxies”  
 Astronomy 461, “Ground-Based Observatories” (at Kitt Peak)  
 Astronomy 402, “Stellar Astrophysics”  
 Astronomy 210, “New Discoveries with the Magellan Observatory”  
 Astronomy 160/201, “Introduction to Astrophysics”  
 Astronomy 120, “Frontiers of Astronomy” First-Year Seminar  
 Astronomy 105/188, “The Cosmos Through the Constellations”  
 Astronomy 102 and 112, “Stars, Galaxies, and the Universe”

**COMMUNITY SERVICE**

**Elected member, Council of the American Astronomical Society, 2015 – 2018.**

US National Committee for the International Astronomical Union, 2015 – 2018

AAS Council Representative to National Research Council committee.

**Elected member, AURA Observatory Council, 2012 – 2015.**

Association of Universities for Research in Astronomy, oversight committee for the National Optical Astronomy Observatory (NOAO).

STScI Financial Review Committee, *Hubble Space Telescope* proposals, 2008 – 2010.

Committee of Visitors, NSF Division of Antarctic Sciences, 2009.

AURA Search Committee for Director of NOAO, 2007.

**Board of Directors, International Gemini Observatory, USA representative, 2006 – 2009.**

Committee of Visitors, NSF Division of Astronomical Sciences, 2005.

NASA Science Archives Working Group, 2002 – 2004.

Scientific review panels:

NOAO Time Allocation Committee, 2012 – 2015.

AAS Annie Jump Cannon Award, 2009 - 2011.

NASA *Hubble Space Telescope* proposals, 2005, 2001. Panel Co-Chair, 2010

Gemini Board Representative to CONICYT Chile Gemini Fund, Chile, 2007 – 2009.

NASA *Chandra X-ray Observatory* proposals, Panel Deputy Chair, 2006.

NASA Chandra Fellowship program, 2004.

NSF AST Astronomy and Astrophysics Research Grant program, 2003.

NASA Astrophysics Theory Program, 1999, Panel Chair, 2002.

**DEPARTMENT AND INSTITUTIONAL SERVICE**

Department Curriculum Committee, 2006–present; Chair, 2009–2010 and 2012–2014

Graduate Preliminary Examinations Committee, 2005, 2006; Chair, 2007, 2014

Department Graduate Recruiting Committee, 2010, 2013, 2014

Lead for Department Long-Range Plan on Undergraduate Program; and Galactic Astronomy 2009–2011

Telescope Time Allocation Committee, 2004–06; 2008–09

Academic Affairs Advisory Committee, 2015–2016

Senate Assembly committee to advise the Provost

**Elected member, Senate Advisory Committee on University Affairs (SACUA), 2012–2015**

Executive committee of the Faculty Senate; **Elected Vice Chair, 2014–2015**

General Counsel Advisory Committee, SACUA representative 2013–2015

Senate Assembly committee to advise the Vice President and General Counsel

Development Advisory Committee, SACUA representative 2014–2015

Senate Assembly committee to advise the Vice President of Development

Government Relations Advisory Committee, SACUA representative 2012–2014

Senate Assembly committee to advise the Vice President for Government Relations

Secretary of the University Advisory Committee, 2010–2012, SACUA representative 2012–2013

Senate Assembly committee to advise the Vice President and Secretary of the University

Board of Advisors, UM Museum of Natural History, 2010–present

Steering Committee, UM Museum Studies Program, 2010–2013

**Elected member, LSA Curriculum Committee, 2009–2012 (on sabbatical 2011)**

## PUBLIC OUTREACH

**Lead organizer, Winter 2009 Theme Semester, *The Universe: Yours to Discover*,**

\$50k project co-sponsored with UM Exhibit Museum of Natural History,

College of Literature, Science, and the Arts, <http://www.lsa.umich.edu/universe> 2007–2009

Lecturer, *Frontiers of Astronomy* public lecture series, Cleveland Museum of Natural History 2008

Organizer, UM Astronomy / Exhibit Museum of Natural History / Student Astronomical Society

Distinguished speaker series 2005, 2007, 2009

Navajo/Hopi Teacher Outreach Program, Lowell Observatory 2001 – 2004

Three-term lecturer for public course “Introduction to Astronomy,” IoA, Cambridge 1997 – 1998

University of Arizona Astronomy Camps 1991 – 1997

Counselor and Assistant Director.

## SELECTED RECENT BIBLIOGRAPHY

- 2016 Golden-Marx, J. B., Oey, M. S., Lamb, J. B., Graus, A. S., & White, A. S., “Classical Oe Stars in the Field of the Small Magellanic Cloud,” *ApJ*, in press; astro-ph/1601.03405
- 2016 Lamb, J. B., Oey, M. S., Segura-Cox, D. M., Graus, A. S., Kiminki, D. C., Golden-Marx, J. B., Parker, J. Wm., “The Runaways and Isolated O-Type Star Spectroscopic Survey of the SMC (RIOTS4),” *ApJ*, in press; astro-ph/1512.01233
- 2015 M. S. Oey, E. W. Pellegrini, P. F. Winkler, S. D. Points, R. C. Smith, A. E. Jaskot, & J. Zastrow, “H II Radiative Transfer Revealed by Ionization Parameter Mapping” (Invited), *Highlights of Astron.* 16, 587
- 2015 Garmany, C. D., Glaspey, J. W., Bragança, G. A., Daflon, S., Borges Fernandes, M., Oey, M. S., Bensby, T., & Cunha, K., “Projected Rotational Velocities of 136 Early B-type Stars in the Outer Galactic Disk,” *AJ* 150, 41

- 2015 A. E. Jaskot, M. S. Oey, Salzer, J. J., Van Sistine, A., Bell, E. F., Haynes, M. P., “From H I to Stars: H I Depletion in Starbursts and Star-forming Galaxies in the ALFALFA H $\alpha$  Survey,” *ApJ* 808, 66
- 2014 A. E. Jaskot & M. S. Oey, “Linking Ly $\alpha$  and Low-ionization Transitions at Low Optical Depth,” *ApJ*, 791, L19
- 2014 Bensby, T., Feltzing, S., & Oey, M. S., “Exploring the Milky Way Stellar Disk: A Detailed Elemental Abundance Study of 714 F and G Dwarf Stars in the Solar Neighbourhood,” *A&A*, 562
- 2013 J. Zastrow, M. S. Oey, S. Veilleux, & M. McDonald, “New Constraints on the Escape of Ionizing Photons in Starburst Galaxies from Ionization-Parameter Mapping,” *ApJ*, 779, 76
- 2013 J. Zastrow, M. S. Oey, & E. W. Pellegrini, “Single-Star H II Regions as a Probe of Massive Star Spectral Energy Distributions,” *ApJ*, 769, 94
- 2013 M. S. Oey, J. B. Lamb, C. T. Kushner, E. W. Pellegrini, & A. S. Graus, “A Sample of OB Stars that Formed in the Field,” *ApJ* 768, 66
- 2013 A. E. Jaskot & M. S. Oey, “The Origin and Escape of Ionizing Radiation in the ‘Green Pea’ Galaxies,” *ApJ*, 766, 91
- 2013 J. B. Lamb, M. S. Oey, A. S. Graus, F. C. Adams, & D. M. Segura-Cox, “The Initial Mass Function of Field OB Stars in the Small Magellanic Cloud,” *ApJ*, 763, 101
- 2012 A. S. Graus, J. B. Lamb, & M. S. Oey, “Discovery of New, Dust-Poor B[e] Supergiants in the Small Magellanic Cloud,” *ApJ*, 759, 10
- 2012 E. W. Pellegrini, M. S. Oey, P. F. Winkler, S. D. Points, & R. C. Smith, “The Optical Depth of H II Regions in the Magellanic Clouds,” *ApJ*, 766, 138; astro-ph/1202.3334
- 2011 \*M.S. Oey & J.B. Lamb, “Completing the Massive Star Population: Striking into the Field” (Invited Review), in *Four Decades of Research on Massive Stars*, eds. L. Drissen, C. Robert, & N. St-Louis, (San Francisco: ASP), 431
- 2011 J. Zastrow, M. S. Oey, S. Veilleux, M. McDonald, & C. L. Martin, “An Ionization Cone in the Dwarf Starburst Galaxy NGC 5253,” *ApJL*, 741, L17
- 2011 M. S. Oey, “On the Origin of the Salpeter Slope for the Initial Mass Function,” *ApJL*, 739, L46
- 2011 T. Bensby, A. Alves-Brito, M. S. Oey, D. Yong, & J. Meléndez, “A First Constraint on the Thick Disk Scale Length: Differential Radial Abundances in K Giants at Galactocentric Radii 4, 8, and 12 kpc,” *ApJ* 735, L46
- 2010 \*M.S. Oey & E. Pellegrini, “The High-Mass Stellar Population and Resulting Feedback Effects” (Invited Review), in *Stellar Populations in the Cosmological Context*, STScI May Symposium, Baltimore, MD, May 3 - 6, 2010, <http://www.stsci.edu/institute/conference/spring2010>