

Alice E. Shapley

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Education

Ph.D. in Astronomy,
California Institute of Technology, 2003
Thesis Title: “Detailed Astrophysical Properties of Lyman Break Galaxies”
Research Advisor: Professor Charles C. Steidel

A.B. in Astronomy and Astrophysics, and Physics,
Magna Cum Laude with Highest Honors in Astronomy/Physics,
Harvard-Radcliffe University, 1997

Employment

Associate Professor, Department of Physics and Astronomy
University of California, Los Angeles, 2008–present

Assistant Professor, Department of Astrophysical Sciences
Princeton University, 2005–2008

Miller Postdoctoral Fellow
University of California at Berkeley, 2003–2005

Research Interests

Galaxy formation and evolution
Feedback processes in starburst galaxies
Stellar populations and chemical evolution at high redshift
Evolution of the inter-galactic medium at high redshift

Awards and Honors

McMaster Cosmology Lecturer, University of Toledo, 2010
Member of “Galaxies Across Cosmic Time” Science Frontier Panel for Astro2010 Decadal Survey, 2009–2010
David and Lucile Packard Fellow, 2006–2011
Alfred P. Sloan Research Fellow, 2006–2008
NSF Graduate Research Fellowship, 1998–2001
Virginia Gilloon Fellowship, Caltech, 1997–1998
Leo Goldberg Prize, Harvard, 1997

Observing Experience

Extensive experience in optical and near-infrared imaging and spectroscopy

Principal investigator: Cycle 14 Hubble Space Telescope (ACS) program (20 orbits); Cycle 15 Hubble Space Telescope (NICMOS) program (28 orbits)
Palomar 200-inch telescope (COSMIC, LFC)
Keck Observatory (LRIS, HIRES, ESI, NIRC, NIRSPEC)
Very Large Telescope (ISAAC)
Gemini-South Telescope (GNIRS)
Subaru Observatory (MOIRCS)
Hubble Space Telescope (WFPC2, ACS, NICMOS)
Spitzer Space Telescope (IRAC)

Service

Peer Review

Referee, 2002–present: *Nature*, *The Astrophysical Journal*, *The Astrophysical Journal Letters*, *Astronomy & Astrophysics*, *Astronomy & Astrophysics Letters*, *Monthly Notices of the Royal Astronomical Society*, *Proceedings of the Astronomical Society of Australia*, *Publications of the Astronomical Society of Japan*
Member, Spitzer Space Telescope Cycle 4 Time Allocation Committee, Spring 2007
Member, NOAO Time Allocation Committee, Spring 2005–Fall 2008
Panel Member, Hubble Space Telescope Time Allocation Committee, Cycles 14 & 17, Spring 2005, 2008
Panel Chair and TAC Member, Hubble Space Telescope Time Allocation Committee, Cycle 18, Spring 2010

Member, UC/Keck Time Allocation Committee, 2008–present
Referee, Canada-France-Hawaii Telescope Canadian Time Allocation
Committee, 2002–2004

Scientific Organizing Committees

“Galaxies in the Distant Universe: Dynamics and Early Evolution,”
Schloss Ringberg, May 2010

“Galaxy Evolution and Environment,” Kuala Lumpur, March 2009

“Galaxy Growth In a Dark Universe,” Heidelberg, July 2007

“Searching for Strong Lenses in Large Imaging Surveys” Workshop,
Fermilab, June 2007

“The Impact of AGN Feedback on Galaxy Evolution: Theoretical Mod-
elling and Observational Signatures,” Schloss Ringberg, May 2007

“Massive Galaxies over Cosmic Time,” Tucson, November 2006

UCLA Department of Physics and Astronomy

Member of Astronomy Colloquium Committee, 2008–present

Member of Astronomy Graduate Admissions Committee, 2010

Co-chair of Astronomy Graduate Admissions Committee, 2011, 2012

Member of Astronomy Graduate Curriculum Committee, 2010

Member of Physics & Astronomy Academic Affairs Committee, 2009–
present

Organizer of Weekly Extragalactic Reading Group, 2008–present

University of California

Member, UC/Keck Time Allocation Committee, Spring 2008–present

Member, Thirty Meter Telescope WFOS/MOBIE Instrument Science
Team, 2008–present

Member, Governance Board of the Southern California Center for Galaxy
Evolution (multi-campus research program sponsored by UC Office of
Research)

Teaching Experience

Princeton:

Astronomy 204, “Topics in Modern Astronomy,” Spring 2007

Princeton SCS Summer School on Galaxy Clusters, June 2006

Astronomy 542, Graduate Observational Seminar, Spring 2006

Astronomy 105, “Our Place in the Universe,” Fall 2005

UCLA:

Astronomy 3, “The Nature of the Universe,” Spring 2011

Astronomy 4, “Black Holes and Cosmic Catastrophes,” Fall 2008, 2009, 2010

Astronomy 274, “Galaxies,” Winter 2009, 2011

Astronomy 278, “The Formation of Galaxies and the IGM,” Winter 2010

Postdocs and Students Supervised

Princeton:

Annika Peter (graduate student)

Xin Liu (graduate student)

Charlie Conroy (graduate student)

UCLA:

Daniel Nestor (postdoc)

Katherine Kornei (graduate student)

Kevin Hainline (graduate student)

Kristin Kulas (graduate student)

Robin Mostardi (graduate student)

Katie Kaufman (undergraduate student)

Clarissa Valencia (undergraduate student)

Invited Presentations

Invited Talk at workshop, “Watching Galaxies Grow Up,” Schloss Ringberg, Bavaria, December 2011

Invited Seminar, Harvard Center for Astrophysics, September 2011

Invited Colloquium, MIT, September 2011

Invited Review, “The Cosmic Odyssey of Baryons” conference, Marseille, June 2011

Invited Review, “Frontier Science Opportunities with the James Webb Space Telescope” conference, June 2011

Invited Colloquium, University of Maryland, April 2011

Invited Colloquium, University of Michigan, March 2011

Invited Colloquium, NRAO, November 2010

Public Lecture, Keck Observatory, September 2010

Invited McMaster Cosmology Lecture, University of Toledo, April 2010

Invited Talk at workshop, “Lyman Alpha Emitters,” Ohio State University, April 2010

Invited Colloquium, Harvard University, March 2010

Invited Colloquium, UCB, February 2010

Invited Seminar, UCSD, January 2010

Invited Talk at workshop, “The Gaseous Evolution of Galaxies,” Schloss Ringberg, Bavaria, November 2009

Invited Colloquium, Carnegie Observatory, November 2009

Invited Review, XXVth IAP Annual Colloquium, “The Lyman Alpha Universe,” July 2009

Invited Seminar, UCI, May 2009

Invited Colloquium, University of Toronto, March 2009

Invited Colloquium, Leiden Observatory, September 2008

Invited Review at workshop, “Galaxies in Real Life and Simulations,” Leiden, September 2008

Invited Seminar, McGill, April 2008

Colloquia, Hertzberg Institute of Astrophysics / UVic, March 2008

Colloquium, UCSC, February 2008

Invited Seminar, Yale, December 2007

Invited Seminar, Penn, November 2007

Invited Seminar, Institute for Advanced Study, October 2007

Colloquium, UMass, Amherst, October 2007

Invited Review at conference, “Astrophysics in the Next Decade: JWST and Concurrent Facilities,” Tucson, September 2007

Invited talk at workshop, “Science in the Era of TMT,” UC Irvine, July 2007

Invited Review at conference, “Galaxy growth in a dark Universe,” Heidelberg, July 2007

Invited Review at conference, “Tracing Cosmic Evolution with Clusters of Galaxies: Six Years Later,” Sesto, June 2007

Invited Astrophysics Seminar, SUNY Stony Brook, April 2007

Invited Astrophysics Seminar, Rutgers University, March 2007

ITC Colloquium, Harvard Center for Astrophysics, March 2007

Colloquium, CU-Boulder, January 2007

Invited Review, “Astrophysics Enabled by the Return to the Moon,” November 2006

Conference Summary, “Massive Galaxies over Cosmic Time II,” November 2006

Colloquium, Cornell University, October 2006
Joint NOAO/Steward Observatory Colloquium, September 2006
Invited Review, IAU Symposium 235, “Evolution of Galaxies across the Hubble Time,” August 2006
Joint Astronomy Colloquium, MPA/MPE/ESO, May 2006
Colloquium, Penn State, March 2006
Invited Seminar, NYU, March 2006
ITC Colloquium, Harvard Center for Astrophysics, February 2006
Invited review at “New Views of the Universe” KICP Inaugural Symposium, December 2005
Colloquium, Space Telescope Science Institute, December 2005
Colloquium, Columbia University, November 2005
Colloquium, Institute of Astronomy, Cambridge, May 2005
Invited Astrophysics Seminar, UC Santa Barbara, April 2005
Colloquium, University of Chicago, December 2004
Invited review at conference, “The High Redshift Frontier,” Tucson, AZ, December 2004
Invited review at workshop, “The Role of Mergers and Feedback in Galaxy Evolution,” Schloss Ringberg, Bavaria, November 2004
Invited Seminar, Lawrence Livermore National Laboratory, September 2004
Invited review talk at Aspen Workshop on Star Formation in Galaxies, Aspen Center for Physics, July 2004
Invited Cosmology Seminar, Max Planck Institute for Extraterrestrial Physics, May 2004
Invited Review at the May Symposium, “Planets to Cosmology: Essential Science in Hubble’s Final Years,” Space Telescope Science Institute, May 2004
Invited Departmental Seminar, Harvard University Astronomy Department, February 2004
Invited Departmental Seminar, UC Berkeley, February 2004
Colloquium, University of Washington, February 2004
Colloquium, UC Santa Cruz, January 2004
Invited Seminar, Princeton, November 2003
Invited Cosmology Seminar, UC Davis, November 2003
Invited Oral Presentations at “Galaxy Formation: A Herculean Challenge”, Banff, Canada, November 2003
Cosmology Group Seminar, UC Berkeley, October 2003

Colloquium, UC Los Angeles, October 2003

Colloquium, UC Santa Barbara, October 2002

Colloquium, UC San Diego, April 2002

Invited Talk, Galaxy Formation Workshop, UC Santa Cruz, August 2001

Lunch Talk, IPAC/Caltech, May 2001

Invited Talk, Galaxy Formation Workshop, UC Santa Cruz, August 2000