

## Joseph Fikry Hennawi

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CONTACT INFORMATION	Department of Physics Broida Hall University of California, Santa Barbara Santa Barbara, CA 93106-9530 Home: <a href="http://web.physics.ucsb.edu/~joe">http://web.physics.ucsb.edu/~joe</a> Group: <a href="http://enigma.physics.ucsb.edu">http://enigma.physics.ucsb.edu</a>	Phone: (805)-893-3503 Fax: (805)-893-3307 E-mail: <a href="mailto:joe@physics.ucsb.edu">joe@physics.ucsb.edu</a>
CITIZENSHIP	USA	
RESEARCH INTERESTS	Observational and theoretical cosmology, dark matter, gravitational lensing, cosmic reionization, quasar absorption lines, the inter- and circumgalactic media, high-redshift galaxies, active galactic nuclei, data mining, machine learning and statistical methods.	
EDUCATION	<b>Princeton University</b> , Princeton, New Jersey USA Ph. D., Astrophysical Sciences November 2004 <ul style="list-style-type: none"><li>• Thesis Title: Topics in Gravitational Lensing: Clusters, Quasars, and the Cosmic Microwave Background.</li><li>• Advisers: Professor David N. Spergel and Professor Michael A. Strauss</li><li>• Area of Study: Theoretical and Observational Cosmology</li></ul> <b>Stanford University</b> , Stanford, California USA Co-terminal B.S. and M.S., Physics, June 2000	
ACADEMIC EXPERIENCE	<b>The University of California, Berkeley</b> , Berkeley, CA USA <i>Hubble Fellow</i> September 2004–September 2007 <i>National Science Foundation Fellow</i> September 2007–July 2009 <ul style="list-style-type: none"><li>• Faculty mentor: Professor Martin White</li></ul> <b>Max-Planck-Institut für Astronomie</b> , Heidelberg, Germany <i>Staff Scientist</i> July 2009–July 2010 <i>Max Planck Research Group Leader</i> July 2010–September 2016 <b>The University of California, Santa Barbara</b> , Santa Barbara, CA USA <i>Associate Professor</i> July 2016–Present	

AWARDS

**Sofja Kovalevskaja Award**, 2010, Alexander von Humboldt Foundation

One of the most valuable academic awards in Germany: 1.45 million euros

**Max Planck Research Group**, 2010, Max Planck Society

International competition for independent research group: 1 million euros

**City of Champions Award**, Salinas, California 2007

Recognized by town mayor for education and public outreach

**National Science Foundation Postdoctoral Fellowship**, 2007

**Hubble Fellowship**, 2004

**Miller Fellowship for Basic Research**, UC Berkeley, 2004 (declined)

**Charlotte and Elizabeth Proctor Honorific Fellowship**, Princeton, 2003

**The Paul & Daisy Soros Fellowship for New Americans**, 2000

INVITED TALKS

**Kavli Institute for Theoretical Physics**, The New Cosmology Confronts Observation, November 2002

**Kavli Institute for Cosmological Physics**, Cosmology with Sunyaev-Zeldovich Cluster Surveys, September 2003

**Fermilab**, Fundamental Physics from Clusters of Galaxies, December 2004

**Kona Hawaii**, The Future of Cosmology with Clusters of Galaxies, February 2005

**Kavli Institute for Cosmological Physics Inaugural Symposium**, New Views of the Universe, December 2005

**UC Santa Barbara**, Astronomy Colloquium, February 2005

**UC Santa Cruz**, Astronomy Colloquium, March 2005

**Lawrence Livermore National Lab**, IGPP Colloquium, September 2005

**UC San Diego**, Astronomy Colloquium, November 2006

**University of Pennsylvania**, Astronomy Colloquium, February 2006

**Princeton University**, Astrophysics Colloquium, February 2006

**UC Berkeley**, Astronomy Colloquium, February 2006

**Harvard University**, Astronomy Colloquium, February 2007

**Carnegie Observatories**, Colloquium, May 2007

**Fermilab**, Searching For Strong Lenses in Large Imaging Surveys Workshop, June 2007

**Ohio State University Center for Cosmology and Astroparticle Physics**, AGN Workshop, October 2007

**Carnegie Observatories**, Colloquium, May 2008

**UC Santa Cruz**, California Astronomy Postdoc Symposium, August 2008

**Yale Center for Astronomy and Astrophysics**, Colloquium, February 2009

**MIT**, Astrophysics Colloquium, February 2009

**Ringberg Castle**, The Gaseous Evolution of Galaxies, November 2009

**Hangzhou, China**, Key Issues in High-redshift Galaxy/Black Hole Evolution in the ALMA/JWST Era, May 2010

**Astrophysical Institute Potsdam**, Astrophysics Colloquium, June 2010

**University of Cambridge**, Institute of Astronomy Colloquium, October 2010

**University of Heidelberg**, Joint Astronomical Colloquium, November 2010

**Princeton**, Astrophysics Colloquium, February 2011  
**University of Cambridge**, Institute of Astronomy Colloquium, May 2011  
**Ringberg Castle**, A Quarter Century of DLAs: Celebrating the Career of Arthur Wolfe, July 2011  
**SISSA Trieste**, Interacting Galaxies and Binary Quasars, April 2012  
**MPIA Workshop**, Disc Galaxy Formation in a Cosmological Context, May 2012  
**Leiden Observatory**, Leiden Observatory Colloquium, June 2012  
**ESO Garching**, Munich Joint Astronomy Colloquium, October 2012  
**IAU Symposium 304**, Multiwavelength AGN surveys and studies, Yerevan, Armenia, October 2013  
**Ringberg Castle**, Gas in and around Galaxies, May 2014  
**MPIA Workshop**, Quenching and Quiescence, July 2014  
**Johns Hopkins University**, Astrophysics Colloquium, April 2015  
**UC Santa Barbara**, Physics Colloquium, February 2016  
**UC Santa Cruz**, Astronomy Colloquium, February 2016

FORMER  
 ENIGMA  
 GROUP  
 MEMBERS

**Kate Rubin**, ENIGMA postdoc 2010-2013, Humboldt Postdoctoral Fellow, offered Hubble Fellowship (declined), Harvard Clay Fellow, faculty at San Diego State  
**Neil Crighton**, ENIGMA postdoc 2010-2013, postdoctoral fellow at Swinburne University of Technology  
**Elisabeta Lusso**, ENIGMA postdoc 2011-2014, postdoctoral fellow at Arcetri Observatory  
**Girish Kulkarni**, ENIGMA postdoc 2011-2014, postdoctoral fellow at Cambridge  
**Khee-Gan Lee**, ENIGMA postdoc 2011-2015, Hubble fellow at Lawrence Berkeley National Laboratory  
**Alberto Rorai**, ENIGMA PhD student 2011-2014, postdoctoral fellow at Cambridge  
**Fabrizio Arrigoni-Battaia**, ENIGMA PhD student 2011-2015, prize postdoctoral fellow at ESO

PROFESSIONAL  
 SERVICE

**Referee** Nature, ApJ, ApJL, A&A, MNRAS, New Astronomy  
**Time Allocation Committee Member**, Chandra Cycle 10, June 2008  
**Time Allocation Committee Member**, ESO OPC TAC, May 2010, November 2010  
**Scientific Organizing co-Chair**, A Quarter Century of DLAs: Celebrating the Career of Arthur Wolfe, Ringberg Castle, July 2011  
**Scientific Organizing Committee Member**, Intergalactic Interactions, Higgs Centre, Edinburgh, June 2013  
**Scientific Organizing Committee Chair**, Intergalactic Matters, MPIA, Heidelberg, June 2014

**ESO MICADO Science Team Member**, Next generation spectrograph for the 39m Extremely Large Telescope, March 2014-present

**Scientific Organizing Committee Member**, Illuminating the Dark Ages: Quasars and Galaxies in the Epoch of Reionization, MPIA, Heidelberg, June 2016

**Scientific Organizing Committee Member**, From Wall to Web, Harnack Haus, Berlin, July 2016

EDUCATION &  
PUBLIC  
OUTREACH

**Project ASTRO**, 2000-2004

National program that improves the teaching of astronomy and physical science by linking professional astronomers with local educators

**Princeton QUEST Teacher Preparation Program**, 2003-2004

Lead instructor of week long professional development course for elementary school teachers

**Public Lectures in California**, 2006-2008

Delivered public lectures at Hartnell Community College and multiple public stargazing events (2006-2007), and to secondary school students (2008)

**Hartnell College Summer Undergraduate Math and Science**, 2008

Lead instructor of week long college crash course on Physics and Astronomy for students about to matriculate to community college

**MPIA Open House**, Heidelberg 2011, 2015

Designed a outreach exhibit illustrating astronomical spectroscopy using spectroscopic glasses

**Public Lecture**, Karlsruhe 2012

Alexander von Humboldt Foundation Network Meeting

**Falling Walls Circle**, Berlin 2012

Invitation only international round-table discussion on science policy