

AMY E. KIMBALL

Office Address:

CSIRO Astronomy & Space Science
PO Box 72
Epping, NSW 1710
Australia

Contact Information:

Phone: +61 (0)2 9372 4670
E-mail: Amy.Kimball@xxxxx.xx

**Employment
History**

CSIRO ASTRONOMY AND SPACE SCIENCE *Jun 2013 – present*

Office of the Chief Executive Postdoctoral Fellow

- Australia Telescope Compact Array (ATCA) user support, including two weeks per year as Duty Astronomer and maintenance of ATCA user manual
- ASKAP commissioning: test ASKAP data reduction with ASKAPSoft
- Facilitator of twice-monthly science Journal Club

NATIONAL RADIO ASTRONOMY OBSERVATORY *Sep 2010 – May 2013*

North American ALMA Science Center (NAASC) Postdoctoral Fellow

- ALMA data reduction: science verification data, Early Science data (hands-on and testing data-reduction pipeline)
- Software testing: CASA algorithms (simulations of ALMA data), ALMA data reduction scripts/pipeline, ALMA Observing Tool
- User support: led tutorials on ALMA proposals and data reduction, maintained online CASAGuides documentation, staffed help-desk
- Organized weekly AGN Journal Club group

Education

UNIVERSITY OF WASHINGTON

Ph.D. in Astronomy

Aug 2010

“Statistical Studies of Radio Sources with Multi-Wavelength Large Sky Surveys”

Dissertation Advisor: Dr. Željko Ivezić

UNIVERSITY OF WASHINGTON

M.S. in Astronomy

Aug 2005

UNIVERSITY OF MICHIGAN

B.S. in Mathematical Physics and Honors Physics

May 2003

Honors

National Science Foundation Graduate Research Fellowship

2005 – 2010

Achievement Rewards for College Scientists (ARCS) Fellowship

2003 – 2006

Wiley Book Award for outstanding academics and/or research

Apr 2003

**Professional
Memberships**

- American Astronomical Society (AAS)
- Astronomical Society of Australia (ASA)
Early Career Research Chapter, Women in Astronomy Chapter
- International Astronomical Union (IAU)
Division B (Facilities, Technologies and Data Science)
Division J (Galaxies and Cosmology)

Computer Skills	Reducing/imaging interferometric data: <i>CASA, Miriad, ASKAPSoft</i> Developing/maintaining software: <i>MacOS, Linux, IDL, Python, C, C++, Fortran</i> Familiarity with: <i>SQL, MySQL, SVN, XML, HTML, Perl, R, AWK</i>	
Research Experience	CSIRO, MARSFIELD, NSW, AUSTRALIA	<i>2013 – present</i>
	<ul style="list-style-type: none"> ◦ WISE infrared properties of AT20G 20-GHz radio sources ◦ ALMA submillimetre properties of luminous QSOs ◦ Multi-wavelength studies of the most luminous QSOs 	
	NRAO, CHARLOTTESVILLE, VA	<i>2010 – 2013</i>
	<ul style="list-style-type: none"> ◦ Radio Luminosity Distribution of QSOs: Star Formation and AGNs ◦ Radio-Intermediate Quasars in WISE and NVSS ◦ Dependence of Quasar Spectra on Radio Morphology in FIRST and SDSS 	
	UNIVERSITY OF WASHINGTON, SEATTLE, WA	<i>2004 – 2010</i>
	Supervisor: Dr. Željko Ivezić	
	<ul style="list-style-type: none"> ◦ Unified Radio Catalog from NVSS, FIRST, WENSS, GB6, and SDSS ◦ Radiative Transfer Modeling of IR Emission from Externally Heated Dust Clouds ◦ A Search for Radio Stars in FIRST and SDSS 	
	NATIONAL RADIO ASTRONOMY OBSERVATORY, SOCORRO, NM	
	Supervisor: Dr. Steven Myers	<i>Jul – Sep 2009</i>
	<ul style="list-style-type: none"> ◦ Developing an Automated <code>clean</code> Task for CASA 	
	LOS ALAMOS NATIONAL LABORATORY, LOS ALAMOS, NM	<i>Aug – Sep 2004</i>
	Supervisor: Dr. Przemyslaw Wozniak	
	<ul style="list-style-type: none"> ◦ Simulating the Detection Efficiency of RR Lyrae Stars in the NSVS 	
	UNIVERSITY OF WASHINGTON, SEATTLE, WA	<i>Oct – Dec 2004</i>
	Supervisor: Dr. Eric Agol	
	<ul style="list-style-type: none"> ◦ Observing the Einstein Cross with SIRTf 	
	MAX-PLANCK-INSTITUT FÜR ASTRONOMIE, HEIDELBERG, GERMANY	<i>Aug 2002</i>
	Supervisors: Dr. Hans-Walter Rix and Dr. Eva Grebel	
	<ul style="list-style-type: none"> ◦ Statistical Studies of Small-Scale Galaxy Clustering in the SDSS 	
	UNIVERSITY OF MICHIGAN, ANN ARBOR, MI	<i>May 2001 – Aug 2003</i>
	Supervisor: Dr. Timothy McKay	
	<ul style="list-style-type: none"> ◦ Statistical Studies of Small-Scale Galaxy Clustering in the SDSS 	
Working Groups	<ul style="list-style-type: none"> ◦ ASKAP Commissioning and Early Science Team (ACES) ◦ ASKAP Evolutionary Map of the Universe (EMU) Genius Group (“EGG”) ◦ US Radio Futures, Galaxy Assembly Through Cosmic Time working group ◦ Radio-galaxies subgroup of Galaxies and Cosmology working group for Australian Astronomy Decadal Plan (2015–2025) ◦ VLA Sky Survey Extragalactic working group 	

- Committees**
- CASS Diversity Committee (inaugural member) *Aug 2014 – present*
 - Develop guidelines for inclusive policies for staff-organized events (e.g., workshops and conferences)
 - Develop “information escrow” process for Ombudsman for confidential documents relating to bullying and harassment
 - Assist in CASS application for bronze-level ASA Pleiades Award for commitment to advancing women in astronomy [successful]
 - SOC and vice-chair of LOC, Southern Cross Conference Series VII *Powerful AGN and Their Host Galaxies Across Cosmic Time* *16–20 Jun 2014*
 - SOC and LOC *Radio Astronomy in the LSST Era*, NRAO, Charlottesville, VA *6–8 May 2013*
 - Hiring committee for NRAO/NAASC post-doctoral fellow *Jan–Mar 2011*

Referee

I have refereed papers for the following journals:

- Monthly Notices of the Astronomical Society (*MNRAS*)
- The Astrophysical Journal (*ApJ*)
- Publications of the Astronomical Society of Australia (*PASA*)
- Journal of Astrophysics and Astronomy (*JOAA*).

I also reviewed a grant proposal for the National Science Centre of Poland (*NCN*), for which I received a small remuneration.

**Invited Talks
/Colloquia**

- Max-Planck-Institut für Radioastronomie, Bonn, Germany *(scheduled) 26 Oct 2015*
- Istituto di radioastronomia, Bologna, Italy *(scheduled) 19 Oct 2015*
- European Space Observatory, Garching, Germany *(scheduled) 16 Oct 2015*
- Curtin University, Bentley, WA, Australia *5 Nov 2014*
- University of Western Australia, Crawley, WA, Australia *4 Nov 2014*
- Exploiting MWA surveys for extragalactic studies*, Perth, WA, Australia *Oct 2014*
- Multi-wavelength identifications for low-frequency radio surveys
- Transformational Science in the ALMA Era*, Charlottesville, VA, USA *Aug 2014*
- Review of Quasars
- Macquarie University, North Ryde, NSW, Australia *14 Feb 2014*
- CSIRO Astronomy and Space Science, Marsfield, NSW, Australia *18 Sep 2013*
- The Institute for Advanced Study, Princeton, NJ, USA *12 Jan 2010*
- National Radio Astronomy Observatory, Socorro, NM, USA *24 Apr 2009*
- National Radio Astronomy Observatory, Charlottesville, VA, USA *22 Sep 2008*
- The Johns Hopkins University, Baltimore, MD, USA *19 Sep 2008*

Successful Proposals (as PI)	WEIGHING THE SUPER-MASSIVE BLACK HOLE IN QSO J1554+1937 <i>P.I. Mark Lacy, NRAO</i> [Australian PIs not allowed for FT mode] <i>Gemini</i> : Fully allocated, 1.4 hours Fast-Turnaround (FT) mode	<i>Feb 2015</i>
	OUTFLOWS AND FEEDBACK IN THE MOST LUMINOUS QSOS IN THE UNIVERSE <i>P.I. Amy Kimball, CSIRO</i> <i>Gemini</i> : Fully allocated, 19.5 hours in semester 2014B	<i>Mar 2014</i>
	STAR FORMATION AND RADIO-JET ACTIVITY IN THE MOST LUMINOUS QSOS IN THE UNIVERSE <i>P.I. Amy Kimball, NRAO</i> VLA: Allocated 8.5 hours at priority C in semester 2013B	<i>Feb 2013</i>
	STAR-FORMATION ACTIVITY IN HOST GALAXIES OF THE MOST LUMINOUS QSOS IN THE UNIVERSE <i>P.I. Amy Kimball, NRAO</i> ALMA: Fully allocated, 4.6 hours in Cycle 1	<i>Nov 2012</i>
	DOUBLE-LOBED RADIO QUASARS IN BOSS <i>P.I. Amy Kimball, University of Washington</i> SDSS III BOSS: Fully allocated, 2300 spectroscopic ancillary fibers	<i>Jun 2010</i>
Mentoring/ Teaching	RESEARCH ADVISOR (GRADUATE STUDENT) ◦ Jesse Swan, University of Tasmania / CASS student <i>Evolution of star formation and black hole activity across cosmic time</i>	<i>Apr 2015 – present</i>
	RESEARCH ADVISOR/MENTOR (UNDERGRADUATE STUDENTS) ◦ Ivan Sadovoy and Arvind Hughes, Macquarie University <i>Reducing ATCA data with CASA</i>	<i>Aug – Oct 2015</i>
	◦ Gabriel Murphy, CASS summer student, CSIRO <i>Searching for luminous, obscured radio quasars</i>	<i>Nov 2013 – Feb 2014</i>
	◦ Valerie Marchenko, NSF-REU student NRAO <i>Testing Evolutionary Models of Giant Radio Sources</i>	<i>Jun – Aug 2011</i>
	◦ Rosalie McGurk, University of Washington <i>Principal Component Analysis of SDSS Stellar Spectra</i>	<i>2008 – 2009</i>
	VOLUNTEER, PRE-MAJOR IN ASTRONOMY PROGRAM (PRE-MAP) http://www.astro.washington.edu/users/premap/ ◦ Mentored students in preparation of final poster/presentation ◦ Supervised students on weekend field trip to LIGO	<i>2005 – 2007</i>
	TEACHING ASSISTANT, U. WASHINGTON ◦ Introduction to Astronomy (four courses) ◦ The Planets (two courses)	<i>2003 – 2008</i>
TUTOR, KELLER PHYSICS PROGRAM, U. MICHIGAN ◦ Introduction to Electricity and Magnetism	<i>Winter 2002</i>	

Outreach	Guest speaker for Atlassian, Sydney, NSW	<i>(scheduled)</i> 27 Nov 2015
	Science fair judge at Gosford Public School, Gosford, NSW	17 Jun 2015
	Guest speaker for Northern Sydney Astronomical Society	16 Sep 2014
	Guest speaker for Central West Astronomical Society of Australia	15 May 2014
	Parkes Teacher Workshop for science teachers	2–4 May 2014
	AAS Congressional Visits Day, Washington, DC	12–13 Mar 2013
	NRAO–Charlottesville Astronomy Festival	5 Nov 2011
	Planetarium shows for school groups	2003 – 2010
	University of Washington Astronomy Open House (annual in Spring)	2004 – 2008
	Workshop presenter, U. Washington Making Connections Program	Spring 2004
	http://depts.washington.edu/womenctr/programs/making-connections	
	Workshop presenter, Seattle Expanding Your Horizons	Mar 2004
	http://www.seattleu.edu/scieng/outreach/seyh/	
U. Michigan Society of Physics Students Inreach Program	2001 – 2003	
Workshops Attended (Selected)	.Astronomy 7, Sydney, NSW	<i>(scheduled)</i> 3–6 Nov 2015
	Women in Astronomy Workshop 2015 (CAASTRO)	22–23 Jul 2015
	Writing Winning Scientific Proposals (CSIRO)	26 Feb 2015
	Looking Up, Looking Down: Interdisciplinary Approaches to Remote Sensing, Image Analysis, and Data Visualization (AAO)	17–18 Sep 2014
	ASA Early Career Researcher Mentoring Workshop	2–3 Jun 2014
	Project Management Fundamentals (CSIRO)	5–6 Nov 2013
	Innovations in Data-Intensive Astronomy (NRAO)	3–5 May 2011
	National Virtual Observatory Summer School	6–14 Sep 2006
	NRAO Summer Synthesis Imaging Workshop	13–20 Jun 2006
	Summer School in Statistics for Astronomers & Physicists	6–10 Jun 2006