

Utane Sawangwit

Research Astronomer and HPC project manager
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Education

Durham University, Extragalactic Astronomy and Cosmology Group

Ph.D. in Physics, 2011

Thesis title: 'Testing the Standard Cosmological Model'

University of Cambridge, Clare College

B.A.+M.Sci.Hons, Natural Sciences (Experimental and Theoretical Physics), 2006

Dissertation title: 'Evolution of young radio sources'

Research Interests

- Cosmology and Large Scale structure of the Universe; Dark Energy, Cosmological Surveys, CMB physics, Alternative gravity theories
- Galaxy formation and evolution; AGN feedback, Quasar evolution, SMBH physics
- Computational Astrophysics and Cosmology, Data Intensive and data mining astronomy.

Work and teaching experience

- Invited Lecturer and research project advisor, High Energy Astrophysics, Astronomy Master programe, Chiang Mai University, 2015 - present.
- Invited Lecturer and research project advisor, Astronomy and astrophysics, Suranaree University of Technology, 2015 - present.
- Occasional reviewer for Monthly Notice of Royal Astronomical Society (MNRAS) journal.
- Lecturer at the IAU International School for Young Astronomer (ISYA), Chiang Mai, Thailand, November - December 2014.
- Lecturer for high school physics teachers prep. before attending Science Education and research summer program at the Lawrence Livermore National Laboratory (LLNL), USA, 2014 - present.
- Intensive tutorial on the multi-wavelength astronomy and data analysis for the International Astronomy and Astrophysics Olympiad national team, 2013 - present.
- Short-term post-doctoral research, Durham University, UK, 2011 - 2012.
- Teaching Assistant, Astrophysics and Cosmology undergraduate course, Durham University, UK, 2007-2010.

Honours & Awards

- Australian Government DFAT Australian-ASEAN Council grant for Capacity Building and technology transfer on Data intensive astronomy and development of radio astronomy in Thailand, 2016 - 2018, (Thai PI, Australian PI: Prof. Andreas Wicenec).
- Institute for the Promotion of Teaching Science and Technology (IPST) of The Royal Thai Government, full-funding for studying Physics in the UK, 2001-2011.
- Clare College excellence result awards, University of Cambridge, 2003 & 2004.
- Represented Thailand at the 31st International Physics Olympiad, U. of Leicester, UK, 2000.
- Honourable Mention at the 1st Asian Physics Olympiad, Indonesia, 2000.

Selective Conferences and Workshops

- NARIT- ICRAR capacity building on Data Intensive Astronomy as part of the two-institutes collaboration, Perth, Australia, September 2016.
- The NARIT-STFC Newton Fund capacity building in data handling, Bangkok, September 2016 (Thai coordinator).
- COSMO-16, University of Michigan, Ann Arbor, USA, August 2016 (poster presentation).
- The 4th Sino-Thai Symposium on "High Energy Physics, Astrophysics and Beyond", Chiang Mai, July 2016 (oral presentation).
- Advanced analytical Method in cosmology and High energy physics (AIMHI) workshop, Chiang Mai, June 2016, (SOC and main organizer).
- The 1st and 2nd South East Asian Astronomy Network (SEAN) computational Modeling and Data analysis in astronomy (SEA-MODA) workshop, Thailand, May 2013 (Chiang Mai) & 2015 (Phuket) (SOC and main organiser).
- The cosmic distance ladder workshop, Tokyo, Japan, July 2015 (poster presentation).
- Zeldovich 100, Cosmology and relativistic astrophysics conference, Moscow, Russia, June 2014 (poster presentation).
- The IAU Asia Pacific RIM (APRIM) meeting, Dajeon, Korea, August 2014 (oral presentation).
- The 1st COSPAR Symposium, 'Planetary Systems of our Sun and other Stars and the Future of Space Astronomy', Bangkok, Thailand, November 2013 (Local SOC).
- 'Windows on the Universe' conference, Rencontres du Vietnam, International Centre for Interdisciplinary Science Education, Quy Nhon, Vietnam, August 2013 (oral presentation).
- The XXVIIIth IAU General Assembly, Beijing, P.R. of China, August 2012 (poster presentation).
- 'VST ATLAS Survey Science Kick-off' meeting, Extragalactic Astronomy and Cosmology Group, Durham University, December 2011 (oral presentation).
- 'Durham-Edinburgh Extragalactic Workshop' (DEX VI), Extragalactic astronomy and Cosmology Group, Durham University, May 2009 (oral presentation).
- Joint European and National Astronomy Meeting (JENAM), University of Hertfordshire, Hatfield, April 2009 (oral presentation in Cosmology session).