CV of Eiichiro Komatsu

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Residence

Westfalenstr. 2 80805 München Germany

Date of Birth

September 17, 1974

Field of expertise

Astrophysics and Cosmology

Education

Tohoku University, Sendai, Japan	Astronomy	Ph.D. 2001
Tohoku University, Sendai, Japan	Astronomy	M.Sc. 1999
Tohoku University, Sendai, Japan	Astronomy	B.Sc. 1997

Professional Experience

Aug 2012 – present	Director (full-time)	Max Planck Institute for Astrophysics,
Apr 2012 – present	Honorary Professor	Garching, Germany Ludwig Maximilians University,
		Munich, Germany
Jan 2012 – Aug 2012	Director (part-time)	Max Planck Institute for Astrophysics,
		Garching, Germany
May 2022 – present	Senior Fellow	Kavli Institute for the Physics and
v I		Mathematics of the Universe, Tokyo, Japan
Apr 2017 – Mar 2022	Principal Investigator	Kavli Institute for the Physics and
_		Mathematics of the Universe, Tokyo, Japan
Sep 2010 – Mar 2017	Visiting Senior Scientist	Kavli Institute for the Physics and
		Mathematics of the Universe, Tokyo, Japan
Feb 2008 – Aug 2010	Visiting Scientist	Kavli Institute for the Physics and
		Mathematics of the Universe, Tokyo, Japan
Sep 2012 – Aug 2013	Adjunct Professor	University of Texas at Austin, TX, USA
Sep 2010 – Aug 2012	Professor	University of Texas at Austin, TX, USA
Jan 2009 – May 2012	Director, Texas Cosmology Center	University of Texas at Austin, TX, USA
Sep 2008 – Aug 2010	Associate Professor	University of Texas at Austin, TX, USA
Sep 2003 – Aug 2008	Assistant Professor	University of Texas at Austin, TX, USA

Sep 2001 – Aug 2003	WMAP Postdoctoral Research Fellow	Princeton University, NJ, USA
Sep 2000 – Aug 2001	Visiting Member	Institute for Advanced Study, NJ, USA
Sep 1999 – Aug 2000	Visiting Student Research Collaborator	Princeton University, NJ, USA
Apr 1997 – Mar 1998	Teaching Assistant	Tohoku University, Sendai, Japan

Title of Dissertation

The Pursuit of Non-Gaussian Fluctuations in the Cosmic Microwave Background

Dissertation Advisors

Toshifumi Futamase (Tohoku University) and David N. Spergel (Princeton University)

Current Research Interests

Theoretical and observational cosmology

Professional Societies

- Astronomische Gesellschaft (AG)
- The American Astronomical Society (AAS)
- The American Physical Society (APS)
- The Astronomical Society of Japan (ASJ)
- The Physical Society of Japan (JPS)

Grants (European Union)

2021 German PI, €73,500, CMB-INFLATE: Advanced methodologies for next generation large scale CMB polarization analysis (PI: Guillaume Patanchon), Marie Sklodowska-Curie Actions Research and Innovation Staff Exchange (H2020-MSCA-RISE-2020), 10/1/21-9/30/25 (extended until 8/31/26).

Grants (Germany)

2019 Co-PI, Excellence Cluster ORIGINS: From the Origin of the Universe to the First Building Blocks of Life (Spokespersons: Andreas Burkert and Stephan Paul), Deutsche Forschungsgemeinschaft (DFG), 1/1/19–12/31/25.

Grants (Japan)

- 2020 PI, 55.25M JPY, Dark Matter Search Using the Cosmic Microwave Background, as a sub-group B06 of the bigger proposal entitled "What is Dark Matter? Comprehensive Study of the Huge Discovery Space in Dark Matter" (PI: Hitoshi Murayama), Grant-in-Aid for Transformative Research Areas (A), 11/19/20–3/31/25.
- 2015 PI, 37.7M JPY, *Ultimate Physics Analysis*, as a sub-group D01 of the bigger proposal on studying Cosmic Acceleration (PI: Hitoshi Murayama), Grant-in-Aid for Scientific Research on Innovative Areas, 6/29/15-3/31/20.

Grants (USA)

- 2010 PI, \$56,240, Sunyaev-Zel'dovich Effect in the WMAP 9-year Data, NASA/Astrophysics Data Analysis, 7/1/11-8/31/12.
- 2010 Sub-contract, \$79,216, WMAP P.I. and Data Analysis Activities Based on the 2010 NASA Astrophysics Senior Review, Johns Hopkins University, 8/10/10–8/9/12
- 2009 Sub-contract, \$94,298, Analysis of the Temperature and Polarization Data from the Wilkinson Anisotropy Probe (WMAP), Johns Hopkins University, 11/12/2008–11/11/2010
- 2009 Co-PI, \$80,000, Anisotropy and Energy Spectrum of the Gamma-ray Background as Probes of Dark Matter and Astrophysical Sources, NASA/Fermi Guest Investigator Program, 8/14/2009–9/13/2010. [PI: Vasiliki Pavilidou, California Institute Of Technology]
- 2008 PI, \$90,000, The Physics of Inflation: Non-Gaussianity, Reheating and Preheating, NSF/Theoretical Physics, 10/15/2008-9/30/2011.
- 2008 PI, \$327,918, Theory of Large-Scale Structure: Understanding Non-linearities, Bias, and Systematics in the Baryon Acoustic Oscillations as a Probe of Dark Energy, NSF/Astronomy & Astrophysics, 9/15/2008-8/31/2011.
- 2008 PI, \$344,761, Modeling the Power Spectrum in High-Redshift Surveys, NASA/ATFP (Astrophysics Theory and Fundamental Physics), 6/1/2008–5/31/2011. [With Co-Is Volker Bromm and Avi Loeb]
- 2008 Sub-contract, \$146,325, Inflation Studies with One- and a Two-Channel CIP, the Smithsonian Astrophysical Observatory, 6/1/2008–4/15/2009. [With Co-Is Karl Gebhardt and Dan Jaffe]
- 2007 PI, \$74,999, Anisotropy in the Cosmic Near Infrared Background: Simulations vs Observations, California Institute Of Technology, & Jet Propulsion Laboratory, 10/1/2007–9/31/2008. [With Co-Is Paul R. Shapiro and Elizabeth R. Fernandez]
- 2007 Sub-contract, \$51,379, Mission Operations Oversight, Data Analysis, Systematic Error Analysis, Foreground Analysis, and Other Principal Investigator Functions for the Wilkinson Microwave Anisotropy Probe, Johns Hopkins University, 6/1/2007–5/31/2008
- 2006 Sub-contract, \$33,066, Mission Operations Oversight, Data Analysis, Systematic Error Analysis, Foreground Analysis, and Other Principal Investigator Functions for the Wilkinson Microwave Anisotropy Probe, Johns Hopkins University, 6/1/2006-5/31/2007
- 2005 PI, \$45,000, Alfred P. Sloan Research Fellowship, Alfred P. Sloan Foundation, 9/16/2005–9/15/2009

Publications

See attached.

Prizes, Awards and Honors

2022	Nishina Memorial Prize (for "Contribution to the standard cosmology based on
	the cosmic microwave background")
2022	Ta-You Wu Distinguished Lecture, the University of Michigan Physics Department
2021	Inoue Prize for Science (for "Critical tests of theories of the early universe using
	the cosmic microwave background")
2020	The Van der Waals Professional Chair, Stichting Van der Waals Fonds, the Netherlands
2017	The 2018 Breakthrough Prize in Fundamental Physics (for Charles L. Bennett, Gary Hinshaw,
	Norman Jarosik, Lyman Page, Jr., David N. Spergel, and the WMAP Science Team)
2015	Fellow of American Physical Society (for "Pioneering use of the bispectrum to study
	the physics of the early universe and for playing a leading role in the analysis of WMAP data")
2015	The Astronomical Society of Japan Chushiro Hayashi Prize (for "Precision Cosmology

based on the Cosmic Microwave Background")
The American Astronomical Society Lancelot M. Berkeley - New York Community Trust Prize
for Meritorious Work in Astronomy (for the WMAP 7-year cosmological interpretation paper)
Gruber Cosmology Prize (for Charles L. Bennett and the WMAP Science Team)
Sophie and Tycho Brahe Visiting Professor, University of Copenhagen, Denmark
Nishinomiya-Yukawa Memorial Prize, Nishinomiya-city, Japan
The International Union of Pure and Applied Physics (IUPAP) Young Physicist's Prize
NASA Group Achievement Award (for WMAP)
College of Natural Sciences Teaching Excellence Award, University of Texas at Austin
Morita Memorial Award, Tohoku University, Japan
Alfred P. Sloan Research Fellow
The Astronomical Society of Japan Young Astronomer Award
NASA Group Achievement Award (for WMAP)
Japan Society for the Promotion of Science Fellow
Aoba Society of Promotion of Science Prize, Tohoku University, Japan

Service (University of Texas at Austin)

- Graduate Advisor, Department of Astronomy (2010–2012)
- Assistant Undergraduate Advisor, Department of Astronomy (2009–2010)
- Astrophysics Theory Group Chair, Department of Astronomy (2006–2012)
- Faculty Evaluation Committee, Department of Astronomy (2007–2009)
- Recruiter, Graduate Admissions Committee, Department of Astronomy (2004–2008)

Service (Max-Planck-Institut für Astrophysik)

- Chair of the Munich Joint Astronomy Colloquium (2022–)
- Perspektivenkommission (PK) of the Max Planck Society (2019–2024)
- Managing Director (2015–2017; 2023–2026)
- PhD Supervisory Panel (2013–)

Selected List of Invited Lectures/Talks/Colloquia Since 2004

2023	Invited presentation, XXV SIGRAV Conference, Trieste
2023	Invited Lecture, Nagoya University
2023	Theory Colloquium, CERN, Geneva
2023	Physics Colloquium, Nagoya University
2023	Innsbruck Physics Colloquium, Universität Innsbruck
2023	CCA colloquium, Flatiron Institute, NY
2023	Kolloquium von Graduiertenkolleg 2149, WWU Münster
2022	Ta-You Wu Distinguished Lecture, University of Michigan
2022	Invited Lecture, Universität Bonn
2022	Séminaire de l'Institut d'Astrophysique de Paris
2022	Invited presentation, The Illinois Center for Advanced Studies of the Universe
2022	Invited presentation, Gravity - The Next Generation, Yukawa Institute for Theoretical Physics
2022	Invited presentation, Galileo Galilei Institute for Theoretical Physics
2021	Stephen Hawking Public Lecture, University of Cambridge
2021	Public Lecture, NHK Culture Online
2021	iTHEMS Colloquium, RIKEN, Japan

- 2021 Monthly Research Colloquia, Italian Space Agency (ASI)
- 2021 Physics Discussions, ICTP-SAIFR, Sao Paulo, Brazil
- 2021 Physics Colloquia, University of Padova
- 2021 Invited presentation, Ecole Internationale Daniel Chalonge-Héctor de Vega
- 2021 Invited presentation, Copernics Webinar Series
- 2020 Invited presentation, NCTS Annual Theory Meeting 2020, National Center for Theoretical Sciences, Taiwan
- 2020 Van der Waals Lecture, University of Amsterdam
- 2020 Public Lecture, Summer School on Galaxies and Cosmology (SSGC) 2020,
 - Institut Teknologi Bandung, Indonesia
- 2020 Teekolloquium, Max-Planck-Institut für Kernphysik
- 2020 Physics Colloquium, IISER Pune, India
- 2020 Institute of Physics Colloquium, University of Amsterdam
- 2020 Colloquium, Albert Einstein Institute
- 2019 Public Lecture, COSMO-19, RWTH Aachen
- 2019 Plücker Lecture, Universität Bonn
- 2019 Invited Lecture, Natur- und Ingenieurwissenschaftliches Kolleg VIII, Studienstiftung des deutschen Volkes
- 2019 Invited Lecture, Institute de Física de Catabria (CSIC-UC), Santander
- 2019 Physikalisches Kolloquium, Universität Bonn
- 2019 Joint Astrophysics Colloquium, Institute for Advanced Study
- 2019 Astrophysics Colloquium, CEA Paris-Saclay
- 2019 ICCUB Colloquium, Universitat de Barcelona
- 2019 Colloquium, Max-Planck-Institut für Radioastronomie
- 2019 Colloquium, Scuola Internazionale Superiore di Studi Avanzati
- 2019 Colloquium, Friedrich-Alexander-Universität Erlangen-Nürnberg
- 2019 RESCEU Colloquium, University of Tokyo
- 2019 ICG Colloquium, University of Portsmouth
- 2018 Plenary Talk, COSMO-18, Institute for Basic Science (IBS), Daejeon, Korea
- 2018 Invited Lecture, Laboratoire de l'Accelerateur Lineaire, Universit Paris-Sud, Orsay, France
- 2018 Invited Lecture, Summer School on Cosmology, ICTP, Trieste, Italy
- 2018 Colloquium, Universität Zürich
- 2018 Colloquium, Universität zu Köln
- 2018 Colloquium, Universite Catholique de Louvain, Belgium
- 2018 Colloquium, University of Manchester
- 2018 Colloquium, Laboratoire d'Astrophysique de Marseille
- 2017 After-reception Talk, 100th anniversary of the MPI f. Physik
- 2017 Plenary Talk, Meeting of the Fundamental Cosmology, Teruel, Spain
- 2017 Plenary Talk, Understanding Cosmological Observations, Benasque, Spain
- 2017 Invited Presentation, Gravity and Black Holes (Stephen Hawking 75th Birthday Conference), University of Cambridge
- 2017 Invited Presentation, New Directions in Theoretical Physics 2, the Higgs Center for Theoretical Physics, University of Edinburgh
- 2017 Invited Lecture, The 13th School of Cosmology "CMB from A to Z" (IESC, Cargese)
- 2017 Colloquium, IFIC-Valencia
- 2017 Physikalisches Kolloquium, Universität Tübingen
- 2017 ISAS Space Science Colloquium, JAXA, Sagamihara, Japan
- 2017 AlbaNova and Nordita Colloquium, University of Stockholm
- 2017 Oskar Klein Center Colloquium, University of Stockholm
- 2016 Opening Talk, COSMO-16, University of Michigan, Ann-Arbor
- 2016 Invited Presentation, Physical Society of Japan, Tohoku-Gakuin University
- 2016 Colloquium, University of Milan
- 2016 Colloquium, University of Toronto
- 2016 Colloquium, Universität Bielefeld
- 2015 Opening Talk, B-mode from Space, Kavli IPMU, Univ. of Tokyo

- 2015 Invited Lecture, Simons Lecture, Simons Foundation, New York
- 2015 Invited Lecture, Elitenetzwerk FORUM, LMU
- 2015 Invited Presentation, General Relativity and Gravitation: A Centennial Perspective, Penn State University
- 2015 Invited Presentation, Astronomical Society of Japan, Osaka University
- 2015 Invited Presentation, Deutsche Physikalische Gessellschaft, TU Berlin
- 2015 Colloquium, The Instituto de Astrofisica de Canarias (IAC), Tenerife, Spain
- 2015 Colloquium, Universitet Utrecht, The Netherlands
- 2015 Colloquium, Max-Planck-Institut für Radioastronomie
- 2015 Colloquium, University of Groningen
- 2015 Colloquium, Universität Leipzig
- 2015 Colloquium, Higgs Center, University of Edinburgh
- 2015 Colloquium, Columbia University
- 2014 Invited Participant, 26th Solvay Conference on Physics "Astrophysics and Cosmology," Brussels, Belgium
- 2014 Invited Presentation, International Conference "Zel'dovich 100" Cosmology and Relativistic Astrophysics, Moscow, Russia
- 2014 Invited Lecture, Schule für Astroteilchenphysik 2014, Obertrubach
- 2014 Invited Lecture, Challenges in Modern Cosmology: Dark Matter and Dark Energy, International Institute of Physics, Natal, Brazil
- 2014 Invited Lecture, The 18th Paris Cosmology Colloquium, Paris, France
- 2014 Colloquium, Abdus Salam International Centre for Theoretical Physics, Trieste, Italy
- 2014 Colloquium, Max-Planck-Institut für Physik
- 2014 Colloquium, Yukawa Institute for Theoretical Physics, Kyoto, Japan
- 2014 Colloquium, Leibniz-Institute für Astrophysik Potsdam, Potsdam, Germany
- 2014 Colloquium, Heidelberg Joint Astronomy Colloquium, Heidelberg, Germany
- 2013 Plenary Talk, 19th International Symposium on Particles, Strings and Cosmology (PASCOS 2013), Taipei, Taiwan
- 2013 Invited Lecture, The 17th Paris Cosmology Colloquium, Paris, France
- 2013 Invited Presentation, American Astronomical Society, Long Beach
- 2013 Colloquium, Münchner Physik Kolloquium, Munich, Germany
- 2013 Colloquium, Scuoa Normale Superiore, Pisa, Italy
- 2013 Colloquium, SISSA, Trieste, Italy
- 2013 Colloquium, Universite Catholique de Louvain, Belgium
- 2013 Colloquium, University of Geneva, Geneva, Switzerland
- 2013 Colloquium, University College London, London, UK
- 2013 Colloquium, Mullard Space Science Laboratory, Surrey, UK
- 2013 Colloquium, Cardiff University, Cardiff, UK
- 2013 Colloquium, University of Oxford, Oxford, UK
- 2013 Colloquium, University of Cambridge, Cambridge, UK
- 2013 Colloquium, European Southern Observatory, Garching, Germany
- 2012 Invited Presentation, Astronomische Gesellschaft, Hamburg, Germany
- 2012 Astrophysics Colloquium, Institute for Advanced Study
- 2012 Colloquium, Institut d'Astrophysique de Paris, France
- 2012 Colloquium, Academia Sinica, Taipei, Taiwan
- 2012 Colloquium, Texas A&M University
- 2011 Invited Lecture, School on Cosmology and Gravity Waves, IUCAA, Pune, India
- 2011 Colloquium, Tata Institute for Fundamental Research (TIFR), Mumbai, India
- 2011 Colloquium, Arizona State University
- 2011 Plenary Talk, The 21st Workshop on General Relativity and Gravitation in Japan (JGRG), Tohoku University, Sendai, Japan
- 2011 Plenary Talk, Future of Large Scale Structure Formation, Korea Institute for Advanced Study (KIAS), Seoul, Korea

Opening Talk, Aspects of Inflation, Texas A&M University 2011 2011 Colloquium, University of Texas at Austin 2010 Colloquium, University of Texas at Dallas 2010 Colloquium, Max-Planck Institute for Physics 2010 Colloquium, Florida State University 2010 Colloquium, Yale University 2010 Colloquium, Texas Tech University 2010 Astrophysics Seminar, Institute for Advanced Study 2010 Invited Lecture, The 14th Paris Cosmology Colloquium 2010 Invited Lecture, The 10th School of Cosmology (IESC, Cargese) 2009 Opening Talk, Solvay Workshop, Brussels, Belgium 2009 Colloquium, Solvay Institutes, Brussels, Belgium Colloquium, Tohoku University, Sendai, Japan 2009 2009 Colloquium, University of Tokyo, Tokyo, Japan 2009 Colloquium, University of Delaware 2009 Colloquium, University of California, Berkeley 2009 Invited Lecture, The 13th Paris Cosmology Colloquium 2009 Invited Lecture, The 3rd Asian School of Particles, Strings and Cosmology (Kusatsu, Japan) 2008 Plenary Talk, XXIV Texas Symposium on Relativistic Astrophysics, University of British Columbia, Vancouver, Canada 2008 Plenary Talk, 3rd Biennial Leopoldina Conference, "Dark Energy," Ludwig-Maximilians-University Munich, Germany 2008 Colloquium, University of Nevada, Las Vegas 2008 Colloquium, Space Telescope Science Institute 2008 Colloquium, Princeton University Invited Lecture, The 12th Paris Cosmology Colloquium 2008 2008 Colloquium, University of California, Davis 2008 Colloquium, Iowa State University Plenary Talk, The Interconnection Between Particle Physics and Cosmology, University of New Mexico 2008 2008 Plenary Talk, Novel Theories of the Early Universe, Perimeter Institute 2008 Colloquium, University of Oklahoma 2007 Invited Presentation on the Future of Cosmology, Science Council of Japan Colloquium, Kyoto University 2007 2007 Invited Lecture, String Theory and Cosmology, Kavli Institute for Theoretical Physics, Chinese Academy of Science, Beijing, China 2007 Plenary Talk, XI Mexican Workshop on Particles and Fields 2007, Tuxtla Gutierrez, Mexico 2007 Plenary Talk, Cosmology and Strings, the Abdus Salam International Centre for Theoretical Physics, Trieste, Italy 2007 Colloquium, Carnegie Observatory 2007 Colloquium, Columbia University 2007 Public Lecture, The Academy of Medicine, Engineering and Science of Texas 2006 Public Lecture, Austin Astronomical Society 2006 Public Lecture, Natural Sciences Council, University of Texas 2006 Plenary Talk, XXIII Texas Symposium on Relativistic Astrophysics, University of Melbourne, Australia 2006 Plenary Talk, TeV Particle Astrophysics II, University of Wisconsin Plenary Talk, Non-Gaussianity from Inflation, University of Cambridge 2006

Plenary Talk, The Next Chapter in Einstein's Legacy, Kyoto University

2006

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Colloquium, University of Florida

Colloquium, Fermilab

Colloquium, University of Minnesota

Colloquium, University of Texas at San Antonio

Colloquium, University of Illinois at Urbana-Champaign

- 2005 Colloquium, Tohoku University
- 2004 Invited Lecture, International Summer School, Background Microwave Radiation and Intracluster Cosmology (Varenna, Lake Como, Italy)
- 2004 Colloquium, Universita di Roma "Tor Vergata"

Professional Services

Meetings/Conferences/Workshops

- 2023 Scientific Organizing Committee, "Large-scale Parity Violation Workshop," ASIAA, Taipei, December 4-7, 2023. See https://events.asiaa.sinica.edu.tw/workshop/20231204/
- 2023 Local Organizing Committee, "Present and Future of Line-Intensity Mapping," MPA, April 18-21, 2023. See https://indico.ph.tum.de/event/7160/
- 2023 Scientific Organizing Committee, "Future Science with CMBxLSS," Yukawa Institute for Theoretical Physics, April 10-14, 2023. See http://www2.yukawa.kyoto-u.ac.jp/~cmb-lss/
- 2023 Scientific Organizing Committee, "Very Light Dark Matter 2023," Chino, Nagago, March 28-30, 2023. See https://indico.ipmu.jp/event/416/
- 2022 Organizer, "Lyman-X Day," MPA, October 5, 2022. See https://indico.ph.tum.de/event/7100/
- 2022 Organizer, "Mini-workshop on Axion," MPA, July 19, 2022.

 See https://wwwmpa.mpa-garching.mpg.de/~komatsu/mini-workshop-on-axion/
- 2021 Scientific Organizing Committee, "The 3rd Symposium on Future of National Astronomical Observatory of Japan," NAOJ, November 9-10, 2021
- 2020 Scientific Organizing Committee, "European Week of Astronomy and Space Science 2020 (EWASS 2020)," Leiden, June 29-July 3, 2020
- 2019 Organizer, "B-mode from Space," MPA, December 16-19, 2019. See https://wwwmpa.mpa-garching.mpg.de/~komatsu/meetings/bmode2019/
- 2019 Scientific Organizing Committee, "CosmoGold IAP 2019," IAP, Paris, June 24-28, 2019. See http://www.iap.fr/vie_scientifique/colloques/Colloque_IAP/2019/
- 2018 Co-organizer, "ICM Physics and Modeling II," MPA/ESO, October 8-10, 2018. See https://wwwmpa.mpa-garching.mpg.de/conf/icm2018/
- 2018 Co-organizer, "Summer School on Large-Scale Structure," Harnackhaus, Berlin-Dahlem, July 22-28, 2018. See http://wwwmpa.mpa-garching.mpg.de/~fabians/LSSschool.html
- 2018 Scientific Organizing Committee, "Gravity and Cosmology 2018," Yukawa Institute for Theoretical Physics, January 29-March 9, 2018. See http://www2.yukawa.kyoto-u.ac.jp/~gc2018/
- 2018 Organizer, "CMB in Germany," MPA, January 31 and February 1, 2018. See http://wwwmpa.mpa-garching.mpg.de/~komatsu/meetings/cmb2018/
- 2017 Organizer, "PFS Collaboration Meeting," MPA, August 7-10, 2017. See http://wwwmpa.mpa-garching.mpg.de/~komatsu/meetings/pfs2017/
- 2017 Scientific Organizing Committee, IAU Symposium 333 on "Peering towards Cosmic Dawn," Dubrovnik, Croatia, October 2-6, 2017. See http://iaus333.irb.hr
- 2016 Advisory Committee, "Schwartz/Reisman ITP workshop: Cosmological Probes of Fundamental Physics," Weizmann Institute of Science, Israel, May 29-June 10, 2016.

 See http://www.weizmann.ac.il/conferences/CPFP2016/home

- 2015 Scientific Organizing Committee, "International Conference on Gravitation and Cosmology (ICGC) 2015," Indian Institute of Science Education and Research Mohali (IISERM), December 14-18, 2015. See http://icgc2015.in/
- 2015 Scientific Organizing Committee, "CosmoCruise 2015" on Allure of the Seas cruising on the Mediterranean Sea, September, 2015. See http://max.ifca.unican.es/CosmoCruise2015/
- 2015 Organizer, MPA/MPE/ESO/EXC Conference on "Theoretical and Observational Progress on the Large-scale Structure of the Universe," ESO, Garching, Germany, July 20-24, 2015. See http://www.mpa-garching.mpg.de/~komatsu/meetings/lss2015/
- 2015 Co-organizer, "Workshop at the Aspen Center for Physics for the Summer of 2015: Primordial Physics," Aspen, Corodaro, USA, June 14-July 4, 2015.
- 2015 Scientific Organizing Committee, "Cluster Symposium" in Kloster Irsee, June 22-25, 2015.
- 2015 Co-organizer, "ICM Physics and Modeling," MPA, June 15-17, 2015. See http://www.mpa-garching.mpg.de/~xun/icm2015/
- 2015 Co-organizer, "The Near Infrared Background II: From the First Stars to the Present," MPA, June 1-3, 2015. See http://www.mpa-garching.mpg.de/nirb2015/
- 2015 Scientific Organizing Committee, "The 3rd Workshop on Large Aperture Sub/mm Telescope in the ALMA Era" NAOJ, Tokyo, March 10-11, 2015.

 See http://www.ioa.s.u-tokyo.ac.jp/~ytamura/WS/LSTWS2015/Welcome.html
- 2014 Scientific Organizing Committee, "Planck 2014: The Microwave Sky in Temperature and Polarization," Ferrara, Italy, December 1-5, 2014. See http://www.consorzioferrararicerche.it/Eventi/eventi-in-programmazione-nel-2014/planck-2014-the-microwave-sky-in-temperature-and-polarization/
- 2014 Co-organizer, "Galaxies and Cosmology in Light of Strong Lensing," Kavli Institute for the Physics and Mathematics of the Universe (Kavli IPMU), November 17-21, 2014. See http://indico.ipmu.jp/indico/conferenceDisplay.py?confld=38
- 2014 Organizer, "Workshop on CLASS and MontePython," Kavli Institute for the Physics and Mathematics of the Universe (Kavli IPMU), October 27-31, 2014.

 See http://indico.ipmu.jp/indico/conferenceDisplay.py?ovw=True&confld=37
- 2014 Scientific Organizing Committee, "EWASS 2014: European Week of Astronomy and Space Science," Geneva, Switzerland, June 30-July 4, 2014. See http://eas.unige.ch/EWASS2014/
- 2014 Co-organizer, "MIAPP Workshop on Cosmology after Planck," Excellence Cluster Universe, Munich, Germany, August 25-September 19, 2014. See http://www.munich-iapp.de/scientific-program/workshop-program-2014/cosmology/
- 2014 Organizer, "Workshop on CLASS and MontePython," Max-Planck-Institut für Astrophysik, Munich, Germany, March 17-21, 2014. See http://www.mpa-garching.mpg.de/~komatsu/lectureseries/special-workshop-on-class.html
- 2013 Scientific Organizing Committee, "10th Symposium on Cosmology and Particle Astrophysics (CosPA)," Honolulu, Hawaii, USA, November 12-15, 2013. See http://www.phys.hawaii.edu/cospa2013/
- 2013 Co-organizer, "The Return of de Sitter II," Max-Planck-Institut für Astrophysik, Munich, Germany, October 13-18, 2013. See http://www.mpa-garching.mpg.de/~komatsu/meetings/ds2013/
- 2013 Scientific Organizing Committee, "New Challenges for Early Universe Cosmologists," Lorentz Center, Leiden, The Natherlands. See http://www.lorentzcenter.nl/lc/web/2013/584/info.php3?wsid=584&venue=Oort

- 2013 Co-organizer, "New Horizons for Observational Cosmology," Varenna, Italy, June 30-July 6, 2013. See http://oberon.roma1.infn.it/varenna/index.html?includi=home
- 2013 Scientific Organizing Committee, "Exploring the Physics of Inflation," Santander, Spain, June 24-27, 2013. See http://http://max.ifca.unican.es/EPI2013
- 2013 Scientific Organizing Committee, "Cosmic Microwave Background," Okinawa Institute of Science and Technology Graduate University (OIST), Japan, June 10-14, 2013.

 See http://www-conf.kek.jp/cmb/2013/index.html
- 2012 Scientific Organizing Committee, "New Trends of Radio Astronomy in the ALMA Era The 30th Anniversary of Nobeyama Radio Observatory," Hakone, Japan, December 3-8, 2012. See http://www.nro.nao.ac.jp/nro30/Symposium2012/Welcome.html
- 2012 Organizer, "Polarized Foreground for Cosmic Microwave Background," Max-Planck-Institut für Astrophysik, November 26-28, 2012. See http://www.mpa-garching.mpg.de/~komatsu/meetings/fg2012/
- 2012 Organizer, "Critical Tests of Inflation Using Non-Gaussianity," Max-Planck-Institut für Astrophysik, November 5-8, 2012. See http://www.mpa-garching.mpg.de/~komatsu/meetings/ng2012/
- 2012 Organizer, "Near Infrared Background and the Epoch of Reionization," Univ. of Texas at Austin, May 14-15, 2012. See http://www.as.utexas.edu/tcc_nir_wkshp/
- 2012 Co-organizer, "Dark Matter Signatures in the Gamma-ray Sky," Univ. of Texas at Austin, May 7-8, 2012. See http://www.as.utexas.edu/tcc_gray_wkshp/
- 2010 Scientific Organizing Committee, "Primordial Features and Non-Gaussianities," Harish-Chandra Research Institute, Allahabad, India, December 14-18, 2010. See http://www.hri.res.in/~pfng/index.html
- 2010 Scientific Organizing Committee, "COSMO/CosPA 2010," Univ. of Tokyo, Japan, September 27 October 1, 2010. See http://www.resceu.s.u-tokyo.ac.jp/symposium/cosmocospa2010/
- 2009 Organizer, "Texas Cosmology Network Meeting 2009," Univ. of Texas at Austin, November 5–6, 2009. See http://www.as.utexas.edu/texascosmo09/
- 2009 Scientific Organizing Committee, Institute of Physics and Mathematics of the Universe Conference, "Dark Energy," IPMU, Kashiwa, Japan, June 22–26, 2009. See http://member.ipmu.jp/darkenergy09/top.html
- 2008 Scientific Organizing Committee, 3rd Biennial Leopoldina Conference, "Dark Energy," Ludwig-Maximilians University, Munich, Germany, October 7–11, 2008. See http://www.mpe.mpg.de/events/dark-energy-2008/
- 2007 Scientific Organizing Committee, the Frank N. Bash Symposium 2007, "New Horizons in Astronomy," Univ. of Texas at Austin, October 14–16, 2007. See http://www.as.utexas.edu/new_horizons/
- 2006 Organizer, "Texas Cosmology Network Meeting," Univ. of Texas at Austin, September 15, 2006. See http://www.as.utexas.edu/texascosmo/

Peer Reviews

- 1. Peer Review Panel, Grant Proposal, NASA Astrophysics Theory
- 2. Peer Review Panel, Einstein Fellowship
- 3. Peer Review, Grant Proposal, NSERC Discovery Grant
- 4. Peer Review, Grant Proposal, NSF Astronomy and Astrophysics Research Grant
- 5. Peer Review, Grant Proposal, NSF CAREER Award

- 6. Peer Review, Grant Proposal, NSF Physics Frontier Center
- 7. Peer Review, Grant Proposal, NSF Advanced Technologies & Instrumentation
- 8. Peer Review, Grant Proposal, Grants-in-Aid for Specially Promoted Research, Japan Society for the Promotion of Science (JSPS)
- 9. Peer Review, Grant Proposal, Frence Research Agency
- 10. Peer Review, Astronomy Rolling Grants, Science and Technology Facilities Council (STFC)
- 11. Peer Review, ERC Advanced Grant, European Research Council
- 12. Peer Review, ERC Consolidator Grant, European Research Council
- 13. Peer Review, ERC Starting Grant, European Research Council
- 14. Peer Review, NASA Postdoctoral Program, Oak Ridge Associated Universities (ORAU)
- 15. Peer Review, Postdoctoral FONDECYT Competition
- 16. Peer Review, SNSF Consolidator Grants, Swiss National Science Foundation
- 17. Peer Review, UKRI Future Leaders Fellowships
- 18. Editor, Astronomy and Astrophysics Review
- 19. Editor, Journal of Cosmology and Astro-particle Physics
- 20. Editor, International Journal of Modern Physics D
- 21. Referee, Advances in Astronomy
- 22. Referee, Astrophysical Journal
- 23. Referee, Astrophysical Journal Letters
- 24. Referee, Astrophysical Journal Supplement Series
- 25. Referee, Astronomy & Astrophysics
- 26. Referee, Europhysics Letters
- 27. Referee, Journal of Cosmology and Astro-particle Physics
- 28. Referee, Journal of High Energy Physics
- 29. Referee, Modern Physics Letters A
- 30. Referee, Monthly Notices of the Royal Astronomical Society
- 31. Referee, Nature
- 32. Referee, Physical Review D
- 33. Referee, Physical Review Letters
- 34. Referee, Science

Committee Work

1. Review panel for European Space Agency (ESA)'s Planck mission, April 3-4, 2014

- 2. Review panel for the "Gravity and Cosmology" program of the Canadian Institute for Advanced Research (CIFAR), September 23–25, 2016
- 3. External Advisory Committee (EAC) for the Simons Observatory, February 2017–November 2021
- 4. International Scientific Advisory Committee (ISAC) for SISSA, November 20–22, 2017; October 11–15, 2021
- 5. Senior Committee for ESA's "Voyage 2050", December 2018-June 2021
- 6. ArXiv Scientific Advisory Council, 2022-present
- 7. Selection Committee for the Shaw Prize, October 1, 2022–September 30, 2023
- 8. External Evaluation Committee for the Division of Science, National Astronomical Observatory of Japan, 2023
- 9. Scientific Advisory Committee of Leung Center for Cosmology and Particle Astrophysics (LeCosPA, 2024–present)
- 10. RIKEN Committee, MEXT (April 1, 2024-April 9, 2025)

Teaching Experience (Univ. of Texas at Austin)

2012, Spring 2011, Spring	AST309R AST396C/	"Galaxies, Quasars, & Universe" "Elements of Cosmology"	undergraduate (non-science majors) graduate
2010, Fall	PHY396T AST376	"Cosmology"	undergraduate (science majors)
2010, ran	A51570	Cosmology	undergraduate (science majors)
2008, Fall	AST376	"Cosmology"	undergraduate (science majors)
2008, Spring	AST309R	"Galaxies, Quasars, & Universe"	undergraduate (non-science majors)
2007, Fall	AST376	"Cosmology"	undergraduate (science majors)
2007, Spring	AST309R	"Galaxies, Quasars, & Universe"	undergraduate (non-science majors)
2006, Fall	AST376	"Cosmology"	undergraduate (science majors)
2006, Spring	AST309R	"Galaxies, Quasars, & Universe"	undergraduate (non-science majors)
2005, Fall	AST376	"Cosmology"	undergraduate (science majors)
2005, Spring	AST309R	"Galaxies, Quasars, & Universe"	undergraduate (non-science majors)
2004, Fall	AST301	"Introduction to Astronomy"	undergraduate (non-science majors)

Teaching Experience (Max-Planck-Institut für Astrophysik)

2020, Spring	IMPRS	"Cosmic Microwave Background"	graduate
2017, Spring	IMPRS	"Cosmic Microwave Background"	graduate
2015, Spring	IMPRS	"Cosmic Microwave Background"	graduate
2013, Spring	IMPRS	"Cosmic Microwave Background"	graduate

Ph.D. Students Supervised (Univ. of Texas at Austin)

1. Elizabeth Fernandez, Astronomy, obtained Ph.D. in 2008. Recipient of the University Continuing Fellowship (2006–2007); Postdoc at the University of Colorado at Boulder (2008–2010); Postdoc at Institut d'Astrophysique Spatiale, Orsay, France (2010–2012); Postdoc at Kapteyn Astronomical Institute, University of Groningen, The Natherlands (2012–2015). Currently a freelance science writer for Big Think.

[http://sparkdialog.com]

- "The Cosmic Near Infrared Background: Remnant Light from Early Stars," Astrophysical Journal, 646, 703-718 (2006 August 1)
- "Mass-to-light Ratio of Ly α Emitters: Implications of Ly α Surveys at Redshifts $z=5.7,\,6.5,\,7,$ and 8.8," Monthly Notices of the Royal Astronomical Society, 384, 1363-1376 (2008 March 15)
- "The Cosmic Near Infrared Background II: Fluctuations," Astrophysical Journal, 710, 1089-1110 (2010 February 20)
- Yuki Watanabe, Physics, obtained Ph.D. in 2009; Postdoc at the Ludwig-Maximilians University, Munich, Germany (2009–2012); Postdoc at the University of Tokyo (2012–2014); JSPS Fellow (2014–2015). Currently Associate Professor at National Institute of Technology, Gunma College. [https://researchmap.jp/yukiwatanabe]
 - "Improved Calculation of the Primordial Gravitational Wave Spectrum in the Standard Model,"
 Physical Review D 74, 123515 1-18 (2006 June 12)
 - "Reheating of the Universe After Inflation with $f(\phi)R$ Gravity," Physical Review D 75, 061301(R) 1-5 (2007 March 7)
 - "Gravitational Inflaton Decay and The Hierarchy Problem," Physical Review D 77, 043514 1-6 (2008 February 14)
- 3. Donghui Jeong, Astronomy, obtained Ph.D. in 2010. Recipient of Dean's Excellence Award (2005); the Board of Visitor Best Second Year Research Project (2007); Wendell Gordon Endowed University Fellowship (2008–2009); Frank N. Edmonds Memorial Fellowship (2008); David Benfield Memorial Scholarship in Astronomy (2009); Prize postdoc at Caltech (2010–2011); Postdoc at Johns Hopkins University (2011–2014). Currently Associate Professor at Penn State University.

[http://www.personal.psu.edu/duj13/]

- "Perturbation Theory Reloaded: Analytical Calculation of Non-linearity in Baryonic Oscillations in the Real Space Matter Power Spectrum," Astrophysical Journal, 651, 619-626 (2006 November 10)
- "Perturbation Theory Reloaded II: Non-linear Bias, Baryon Acoustic Oscillations and Millennium Simulation in Real Space," Astrophysical Journal, 691, 569-595 (2009 January 16)
- "Primordial non-Gaussianity, scale-dependent bias, and the bispectrum of galaxies," Astrophysical Journal, 703, 1230-1248 (2009 October 1)
- "Galaxy-CMB and galaxy-galaxy lensing on large scales: sensitivity to primordial non-Gaussianity,"
 Physical Review D 80, 123527 1-25 (2009 December 22)
- 4. Masatoshi Shoji, Astronomy, obtained Ph.D. in 2011 (fall). Went to ABeam Consulting company, Tokyo, Japan and Boston Consulting Group. Currently at Mimir, Inc.

[https://www.linkedin.com/in/masa-masatoshi-shoji-531412141/]

- "Extracting Angular Diameter Distance and Expansion Rate of the Universe from Two-dimensional Galaxy Power Spectrum at High Redshifts: Baryon Acoustic Oscillation Fitting versus Full Modeling," Astrophysical Journal, 693, 1404-1416 (2009 March 10)
- "Third-order Perturbation Theory With Non-linear Pressure," Astrophysical Journal, 700, 705-719 (2009 July 20)
- "Massive Neutrinos in Cosmology: Analytic Solutions and Fluid Approximation," Physical Review D 81, 123516 1-26 (2010 June 15)
- 5. Jonathan Ganc, Physics, obtained Ph.D. in 2013. Postdoc at the Centre for Cosmology and Particle Physics Phenomenology (CP³-Origins), the University of Southern Denmark in Odense (2013–2016). Currently a Backend and DevOps Developer at CoachCare.

[https://www.coachcare.com/team/]

- "A New Method for Calculating the Primordial Bispectrum in the Squeezed Limit," Journal of Cosmology and Astro-particle Physics, 12, 009 1-19 (2010 December 9)
- "Calculating the Local-type $f_{\rm NL}$ for Slow-roll Inflation with a Non-vacuum Initial State," Physical Review D, 84, 063514 (2011 September 15)
- "Scale-dependent Bias of Galaxies and μ -type Distortion of the Cosmic Microwave Background Spectrum from Single-field Inflation with a Modified Initial State," Physical Review D, 86, 023518 (2012 July 10)

Ph.D. Students Supervised (Max-Planck-Institut für Astrophysik)

- Chi-Ting Chiang, obtained Ph.D. in 2015. Postdoc at C.N. Yang Institute for Theoretical Physics, Stony Brook University (2015–2018); Postdoc at Brookhaven National Laboratory (2018–2019). Currently a machine learning developer/quantitative researcher at Susquehanna International Group. [https://www.linkedin.com/in/chi-ting-chiang-047a9ab8/]
 - "Galaxy Redshift Surveys with Sparse Sampling," Journal of Cosmology and Astro-particle Physics, 12, 030 (2013 December 13)
 - "Position-dependent Power Spectrum of the Large-scale Structure: A Novel Method to Measure the Squeezed-limit Bispectrum," Journal of Cosmology and Astro-particle Physics, 05, 048 (2014 May 29)
 - "Position-dependent Correlation Function from the SDSS-III Baryon Oscillation Spectroscopic Survey Data Release 10 CMASS Sample," Journal of Cosmology and Astro-particle Physics, 09, 028 (2015 September 9)
- 2. Philipp Wullstein, left the Ph.D. program for KUKA on January 31, 2015. Currently at BMW. [https://www.linkedin.com/in/philipp-wullstein-kammler-5b7b37196/]
- 3. Inh Jee, Astronomy, obtained Ph.D. in 2017. Postdoc at MPA (2017–2018). Currently at Facebook. [https://www.linkedin.com/in/inh-jee]
 - "Measuring Angular Diameter Distances of Strong Gravitational Lenses," Journal of Cosmology and Astro-particle Physics, 11, 033 (2015 November 19)
 - "Time-delay Cosmography: Increased Leverage with Angular Diameter Distances," Journal of Cosmology and Astroparticle Physics, 04, 031 (2016 April 15)
 - "A Measurement of the Hubble Constant from Angular Diameter Distances to Two Gravitational Lenses," Science, 365, 1134 (2019 September 13)
- 4. Aniket Agrawal, obtained Ph.D. in 2018. Recipient of the Kippenhahn Award (2018). Postdoc at Institute of Astronomy & Astrophysics, Academia Sinica (ASIAA; 2018–2020). Currently a patent attorney trainee at Mr. Simon Michels's firm.

[https://www.linkedin.com/in/aniket-agrawal-92a07a7b]

- "Generating Log-normal Mock Catalog of Galaxies in Redshift Space," Journal of Cosmology and Astroparticle Physics, 10, 003 (2017 October 3)
- "Large Tensor non-Gaussianity from Axion-gauge Fields Dynamics," Physical Review D, 97, 103526 (2018 May 29)
- "Tensor Non-Gaussianity in Axion-Gauge-Fields Dynamics: Parameter Search," Journal of Cosmology and Astroparticle Physics, 06, 027 (2018 June 18)
- "Non-Gaussianity of Inflationary Gravitational Waves from the Field Equation," International Journal of Modern Physics D, 28, 1950036 (2018 November 27)

5. Aoife Boyle, obtained Ph.D. in 2019. Recipient of the Kippenhahn Award (2019). Postdocs at Institut Astrophysique de Paris and CEA Saclay (2019–2023).

[https://aboyle.net]

- "Deconstructing the Neutrino Mass Constraint from Galaxy Redshift Surveys," Journal of Cosmology and Astroparticle Physics, 03, 035 (2018 March 21)
- "Understanding the Neutrino Mass Constraints Achievable by Combining CMB Lensing and Spectroscopic Galaxy Surveys," Journal of Cosmology and Astroparticle Physics, 04, 038 (2019 April 23)
- "Neutrino Mass Constraints Beyond Linear Order: Cosmology Dependence and Systematic Biases," Journal of Cosmology and Astroparticle Physics, 04, 022 (2021 April 9)
- 6. Leila Mirzagholi, obtained Ph.D. in 2020. Went to a postdoc at ETH Zürich (Crowther lab, climate research). Currently a postdoc at MIT (Terrer lab, Climate and Ecological Synthesis) [https://leilamirzagholi.github.io]
 - "Production and Backreaction of Fermions from Axion-SU(2) Gauge Fields during Inflation,"
 Physical Review D, 101, 083528 (2020 April 20)
 - "Effects of Gravitational Chern-Simons during Axion-SU(2) Inflation," Journal of Cosmology and Astroparticle Physics, 06, 024 (2020 June 11)
- 7. Chris Byrohl (co-advised by Shun Saito), obtained Ph.D. in 2021. Currently a postdoc at the University of Heidelberg.

[https://cbyrohl.de/en/]

- "The Impact of Lyman-α Radiative Transfer on Large-scale Clustering in the Illustris Simulation,"
 Astronomy & Astrophysics, 614, A31 (2018 June 8)
- "Radiative Transfer Distortions of Lyman- α Emitters: A New Fingers-of-God Damping in the Clustering in Redshift Space," Monthly Notices of the Royal Astronomical Society, 489, 3472–3491 (2019 August 16)
- "Variations in Shape among Observed Lyman-α Spectra due to Intergalactic Absorption," Astronomy & Astrophysics, 642, L16 (2020 October 19)
- "The Physical Origins and Dominant Emission Mechanisms of Lyman-alpha Halos: Results from the TNG50 Simulation in Comparison to MUSE Observations," Monthly Notices of the Royal Astronomical Society, 506, 5129-5152 (2021 October)
- 8. Angelo Caravano (co-advised by Jochen Weller), obtained Ph.D. in 2022. Recipient of the PhD award of the Münchener Universitätsgesellschaft and the ORIGINS PhD Award. Currently a postdoc at the Institut d'Astrophysique de Paris, supported by the Initiative Physique des Infinis (IPI) in Paris.
 - "Lattice Simulations of Inflation," Journal of Cosmology and Astroparticle Physics, 12, 010 (2021 December 6)
 - "Lattice Simulations of Abelian Gauge Fields coupled to Axion during Inflation," Physical Review D, 105, 123530 (2022 June 27)
 - "Lattice Simulations of Axion-U(1) Inflation," Physical Review D, 108, 043504 (2023 August 3)
- Laura Herold, obtained Ph.D. in 2023. Recipient of the Kippenhahn Award (2023). Currently a postdoc (Miller Fellow) at John Hopkins University.
 [https://lauraherold.de]
 - "New Constraint on Early Dark Energy from Planck and BOSS data using the Profile Likelihood,"
 Astrophysical Journal Letters, 929, L16 (2022 April 14)

- "Restoring Cosmological Concordance with Early Dark Energy and Massive Neutrinos?," Monthly Notices of the Royal Astronomical Society, 520, 3688 (2023 January 30)
- "Decaying Dark Matter with Profile Likelihoods," Physical Review D, 107, L021303 (2023 January 27)
- "Resolving the Hubble tension with Early Dark Energy," Physical Review D, 108, 043513 (2023 August 7)
- "Constraint on Early Dark Energy from Isotropic Cosmic Birefringence," Physical Review Letters, 131, 121001 (2023 September 18)
- 10. Marta Monelli, obtained Ph.D. in 2024
 - "Impact of Half-wave Plate Systematics on the Measurement of Cosmic Birefringence from CMB Polarization," Journal of Cosmology and Astroparticle Physics, 03, 034 (2023 March 14)
 - "Impact of Half-wave Plate Systematics on the Measurement of CMB B-mode Polarization,"
 Journal of Cosmology and Astroparticle Physics, 05, XXX (2024 May XX)
- 11. Vyoma Muralidhara, anticipated Ph.D. 2024
- 12. Maja Lujan Niemeyer, anticipated Ph.D. 2026
 - "Lyα Halos around [O III]-Selected Galaxies in HETDEX," Astrophysical Journal Letters, 934, L26 (2022 August 1)
 - "SIMPLE: Simple Intensity Map Producer for Line Emission," Astrophysical Journal, 958, 4 (2023 November 7)
- 13. Jeongin Moon, anticipated Ph.D. 2026
- 14. Shaghaiegh Azyzy, anticipated Ph.D. 2026

Master Students Supervised (Max-Planck-Institut für Astrophysik)

- Aniket Agrawal (2013-2014), "Towards an Analytical Model for Redshift Space Distortions". Continued onto PhD at MPA.
- Maja Lujan Niemeyer (2020-2021), "Lyman- α Halos around High-Redshift Lyman- α Emitting Galaxies". Continued onto PhD at MPA.
 - "Surface Brightness Profile of Lyman-alpha Halos out to 320 kpc in HETDEX," Astrophysical Journal, 929, 90 (2022 April 15)
- Silvia Gasparotto (2021; co-advised by Ippei Obata), "Cosmic Birefringence from Axion Monodromy Potential". Went to IFAE (Institut de Física d'Altes Energies), Barcelona, for PhD
 - "Cosmic Birefringence from Monodromic Axion Dark Energy," Journal of Cosmology and Astroparticle Physics, 08, 025 (2022 August 16)

Undergraduate Students Supervised (Univ. of Texas at Austin)

- Farhan S. Amanullah (2006), "Cosmology Website"
- Galen C Carter-Jeffrey (2006), "Cosmology Website"
- Chad W. Gardner (2006–2007), "Mass Function of Dark Matter Halos"
- Sung Ju Kang (2007), "WMAP Cold Spot and Void". Went to Iowa State University for PhD. Currently a postdoc at Korea Astronomy and Space Science Institute (KASI)

- Brianne C. Herrera (2007–2008), "Scalar Field Dark Energy". Went to Ohio State University for PhD. Currently Assessment and Planning Analyst at Ohio State University
- Joyce B. Byun (2007–2009), "Baryon Acoustic Oscillations". Recipient of the 2009 Outstanding Senior Award for this work. Went to Cornell University for PhD; Postdocs at the Univ. of Sussex and Univ. of Geneva. Currently a postdoc at Univ. of Arizona
- Davis Varghese (2009–2011), "Cosmic Near Infrared Background and CMB Polarization". Went to University of Pennsylvania for PhD
- Nicolas Canac (2010–2011), "Two-point Correlation Function". Went to University of California, Irvine for PhD. Currently a Staff Data Scientist at Shopify
- Austin E. Gatlin (2012), "History of Discovery of the Expansion of the Universe"

Internship Students Supervised (Max-Planck-Institut für Astrophysik)

- Christina Kreisch (2015; from Washington Univ. on DAAD fellowship), "Effects of Modified Gravity on B-mode Polarisation and Implications for LiteBIRD". Went to Princeton University for PhD; Recipient of NSF Graduate Research Fellowship. Currently Quantitative Researcher at Citadel
 - "Cosmological Constraints on Horndeski Gravity in Light of GW170817", Journal of Cosmology and Astroparticle Physics, 12, 030 (2018 December 18)
- Takuya Inoue (2018; Internship from École centrale de Lille), "Calculation of Solar System, Milky Way, and Local Group kinematics for precision measurements of the expansion velocity of the Universe with Sandage Test". Went to Doshisha University for master, and National Taiwan University for PhD
 - "The Effect of Our Local Motion on the Sandage-Loeb Test of the Cosmic Expansion", Publications of the Astronomical Society of Japan, 72, L1 (2020 February)
- Yansong Yun (2018; Internship from Beijing University), "Reconstruction of CMB lensing"
- Marta Monelli (2020), "Investigation of the effect of non-idealities of Have Wave Plate on the measurement of the optical depth from LiteBIRD". Now a PhD student at MPA
- Lennard Dufner (2022, co-advised by Luisa Lucie-Smith), "Learning about the Density Profiles of Cosmic Voids using Neural Networks".
- Ziyang Chen (2023-2023, co-advised by Drew Jamieson; visiting PhD student from Shanghai Jiao-Tong University)
 - "Statistics of thermal gas pressure as a probe of cosmology and galaxy formation", Physical Review D, 109, 063513 (2024 March 8)
- Alessandro Greco (2023; visiting PhD student from University of Padova on ERASMUS), "Non-Gaussian CMB Temperature Maps from Axion-U(1) Inflation".

Postdoctoral Researchers Mentored (Univ. of Texas at Austin)

- 1. Martin Landriau (2004–2006). Currently Project Scientist at Lawrence Berkeley National Laboratory
- 2. Jun Zhang (2009–2012; Texas Cosmology Center Fellow). Currently Professor at Shanghai Jiao Tong University
- 3. Lotty Ackerman (2009–2012; Texas Cosmology Center Fellow). Currently Clinical Social Worker and Therapist at Sol Associates, Austin, TX

4. Julie Comerford (2010–2011; Texas Cosmology Center Fellow). Currently Associate Professor at the University of Colorado Boulder

Postdoctoral Researchers Mentored (Max-Planck-Institut für Astrophysik)

- 1. Jaiseung Kim (MPA Fellow; 2012–2015). Left astrophysics
- 2. Christian Wagner (MPA Fellow; 2012–2015). Went to Deutsche Bank
- 3. Tsz Yan Lam (MPA Fellow; 2012–2014). Went to Deutsche Bank. Currently Head of Data Science at AUTO1 Group
- 4. Xun Shi (MPA Fellow; 2012–2018). Currently Associate Professor at Yunnan University
- 5. Marcello Musso (Visiting Postdoc from Univ. Pennsylvania; 2015–2018). Went to ICTP East African Institute for Fundamental Research in Rwanda for faculty. Currently Distinguished Researcher at the University of Salamanca
- 6. Alexandre Barreira (MPA Fellow; 2015–2018). Went to Excellence Cluster ORIGINS for the ORIGINS Fellow (until 2023). Currently Data Scientist at MEDIFOX DAN GmbH
- 7. Shun Saito (MPA Fellow; 2016–2018). Currently Assistant Professor at Missouri University of Science and Technology
- 8. Kári Helgason (Marie Curie Fellow; 2014–2018). Went to the University of Iceland for a postdoc. Currently Head of Research & Innovation at CarbFix
- 9. Ryu Makiya (JSPS KAKENHI; 2016–2018). Went to Academia Sinica Institute of Astronomy & Astrophysics (ASIAA) for a postdoc. Currently at NTT DATA Automobiligence Research Center, Ltd.
- 10. Kaloian Lozanov (MPA Fellow; 2017–2020). Went to the University of Illinois Urbana-Champaign for a postdoc. Currently a postdoc at Kavli IPMU
- 11. Azadeh Maleknejad (MPA Fellow; 2017–2020). Recipient of the 2021 Buchalter Cosmology Prize. Went to CERN for a postdoc. Currently the Royal Society University Research Fellow at King's College London
- 12. Linda Blot (MPA Fellow; 2018–2021). Fabian Schmidt's ERC (2021-2023). Currently Project Assistant Professor at Kavli IPMU
- 13. Elisa Ferreira (MPA Fellow; 2018–2021). Currently Assistant Professor at the Kavli Institute for the Physics and Mathematics of the Universe (Kavli IPMU), the University of Tokyo
- 14. Samuel Young (Humboldt Research Fellow; 2018–2021). Went to Leiden University for the Marie Curie Fellow. Currently a Research Fellow at the University of Sussex
- 15. Ira Wolfson (Minerva Fellow; 2019–2020). Went to SISSA for a postdoc. Currently tenure-track faculty at Braude Academic College in Karmiel
- 16. Ippei Obata (JSPS Fellow; 2020–2022). Currently a postdoc at Kavli IPMU
- 17. Paolo Campeti (Excellence Cluster ORIGINS; 2020–2023). Currently a staff member (Ricercatore Tecnologo) at INFN Sezione di Ferrara
- 18. Deepika Bollimpalli (MPA Fellow; 2020–2023). Currently a postdoc at Northwestern University
- Michael (Sten) Delos (MPA Fellow; 2020–2023). Currently a postdoc at the Carnegie Theoretical Astrophysics Center

- 20. Luisa Lucie-Smith (MPA Fellow; 2020-present)
- 21. Andrew (Drew) Jamieson (MPA Fellow; 2021–present)
- 22. José Luis Bernal (MPA Fellow; 2022). Currently Ramón y Cajal Fellow at Instituto de Física de Cantabria, Santander
- 23. Toshiki Kurita (MPA Fellow; 2023–present)
- 24. Patricia Diego-Palazuelos (MPA Fellow; 2023–present)

Postdoctoral Researchers Mentored (Kavli IPMU)

- 1. Ryu Makiya (JSPS KAKENHI; 2018–2020). Went to Academia Sinica Institute of Astronomy & Astrophysics (ASIAA) for a postdoc. Currently at NTT DATA Automobiligence Research Center, Ltd.
- 2. Toshiya Namikawa (JSPS KAKENHI Project Assistant Professor; 2021–present)

Major Involvement in Large-scale Projects

- Wilkinson Microwave Anisotropy Probe (2001–2012) [PI: Charles L. Bennett, Johns Hopkins University]
- Hobby-Eberly Telescope Dark Energy Project (HETDEX) (2004–present; Chair of the cosmology working group 2019-2020) [PI: Gary J. Hill, the University of Texas at Austin]
- Lite (Light) satellite for the studies of B-mode polarization and Inflation from cosmic background Radiation Detection (LiteBIRD) (2008–present; JAXA Project Scientist for Phase A1 since 2016)
 [PI: Masashi Hazumi, KEK]
- Prime Focus Spectrograph (PFS) (2014–present; Co-chair of the cosmology working group 2015-2019) [PI: Hitoshi Murayama, Kavli IPMU]
- CCAT-prime (2018–present; CCAT Science Board since 2021)

