Vikram Ravi

Cahill Center for Astronomy and Astrophysics +		26 395 4278
Pasadena CA 91125, USA http://sites.astro.calter		edu/~vikram
F alana ati ana	Dh.D. University of Melhourne	2011 2014
Education	Thesis title: Evincing the histories of the cosmic supermassive bla	ack hole and
	galaxy populations with gravitational waves.	
	Advisors: Prof. Stuart Wyithe, Dr. George Hobbs (CSIRO Astrono	my and
	Space Science).	2006 2000
	Honors thesis: Stellar radio transients from brown dwarfs to pulse	2000 - 2009 ars
	(supervised by Prof. Dayal Wickramasinghe)	
	Exchange program to the University of California, Berkeley (Fall 2	008)
Awarda 8	Sloan Besearch Fellowship	2024
Awarus a	Stefano Braccini Thesis Prize	2024
Honors	(awarded by the Gravitational Wave International Committee)	2010
	Charlene Heisler Thesis Prize	2016
	(awarded by the Astronomical Society of Australia)	
	Kavli Fellow	2015
	(invited speaker at Kavli Frontiers of Science Symposium, Makassar	; Indonesia)
	John Stocker Postgraduate Scholarship	2011
	Australian Postgraduate Award	2011
Grants	PI, HST/STIS spectroscopy of AT2020vdq (\$41k), NASA	2023
	PI, CAREER: Fast Radio Bursts Illuminating the Unseen Univers	e (\$517k)
	National Science Foundation	2023-27
	PI, Tidal Disruption Events in Active Galactic Nuclei (\$80k), NAS	A 2022-23
	PI, Science with Hybrid Radio/Optical DSN Tracking Antenna	0000 04
	(\$150K) JPL Research and Technology Development Fund	2022-24
	PI, SPRITELY: A New Window into the Explosive, Dark Universe (\$100k) Mt. Cube Astronomical Equidation	2020-21
	(\$100k) MIL Cuba Astronomical Foundation Co-PL DSA-2000 radio camera (\$15M to date)	2020-24
	Schmidt Eutures	2020-24
	PI. Unraveling the Mysteries of Fast Radio Bursts (\$400k)	2020-22
	Caltech and JPL President's and Director's Fund	
	PI, Ultra-Wide Band Spectro-Radiometry (\$400k)	2019-21
	Caltech and JPL President's and Director's Fund	
	Co-PI, Deep Synoptic Array (\$6.2M)	2018-23
	NSF Mid-Scale Innovations Program	
	Project Scientist, Deep Synoptic Array prototype (\$300k)	2016-17
	Director's Fund	2016 17
	FI, NAAO NYVEA luhueu community study (\$9K)	2010-17
Research	Assistant Professor of Astronomy	2019-present
Positions	California institute of lechnology	

Vikram Rav	ri	CV		
	Clay Postdoctoral Fellow Center for Astrophysics Harvard & Smithsonia	2018-2019 an		
	Millikan Postdoctoral Scholar in Astronomy California Institute of Technology	2015-2018		
	Research Staff Swinburne Institute of Technology (supervisor: Worked on Molonglo Observatory Synthesis Te	2014-2015 Prof. Matthew Bailes) escope upgrade		
	Junior Specialist Space Sciences Laboratory, University of Calif Prof. Charles Townes) Systems engineer and researcher with Infrared	2010-2011 fornia, Berkeley (supervisor: d Spatial Interferometer		
	Research Assistant CSIRO Astronomy and Space Science, Austral Manchester) Worked on gamma-ray and radio pulsar emiss	2009-2010 lia (supervisor: Prof. Dick ion mechanisms.		
	Summer Vacation Student CSIRO Astronomy and Space Science, Sydney Hobbs) Worked on radio pulsar glitches.	2007-2008 y (supervisor: Dr. George		
	Research Assistant Australian National University (supervisor: Dr. K Cold atom imaging and spectroscopy in Bose-	2007 Ken Baldwin) Einstein condensate lab.		
Teaching &	Postdoctoral Scholar Advisor			
•				
Advising	Stella Ocker (Caltech/Carnegie) Dongzi Li (Caltech) Liam Connor (Caltech) Dana Simard (Caltech) Bade Uzgil (Caltech) Graduate Research Advisor	2023- 2020-2023 2020-2023 2019-2022 2021-2022		
Advising	Stella Ocker (Caltech/Carnegie) Dongzi Li (Caltech) Liam Connor (Caltech) Dana Simard (Caltech) Bade Uzgil (Caltech) Graduate Research Advisor Sol Bin (Hazel) Yun (Caltech - first-year adviso Kritti Sharma (Caltech) Jakob Faber (Caltech) Myles Sherman (Caltech) Jean Somalwar (Caltech) Chris Bochenek (Caltech) Ge (Wendy) Chen (Caltech) Nitika Yadlapalli (Caltech) Lecturer	2023- 2020-2023 2020-2023 2019-2022 2021-2022 2022- 2022- 2022- 2022- 2020- 2019-2021 2019-2023 2019-2023 2019-2023		
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Vikram Rav	/i	CV
	Undergraduate Research Advisor	
	Thuwaragesh Jayachandran (Caltech SURF) Dylan Perez (Caltech volunteer) Nitya Nigam (Caltech SURF, Columbia) Abra Gieger (Caltech SURF, Cornell) Michael Gutierrez (Caltech SURF and senior thesis) Olivia Rourke (Caltech WAVE, Cal Poly SLO) Matilda Eriksson (Caltech WAVE, Cal Poly SLO) Alessandra Squillace (Caltech WAVE, UofA) Abdullah Ateyeh (Caltech SURF) Varun Muralidaran (IIT Kanpur summer) Kovi Rose (Hebrew University of Jerusalem, Caltech) Julian Sanders (Caltech FSRI) Jerome Seebeck (Caltech SURF and senior thesis) Huan Yan Qi (Caltech SURF)	2024 2024 2024 2024 2023 2023 2023 2020 2020
Publication	I am an author of 238 publications and short notices (119 submit	ted or
history & talks	accepted to refereed journals), with over 7700 citations and an <i>h</i> - am the lead author of 28 publications in total (25 refereed/submit two lead-author papers in the journal <i>Science</i> , one in <i>Nature</i> , and <i>Astronomy</i>	-index of 46. I ted), including I one in <i>Nature</i>
	A full listing of my publications can be found on NASA ADS at	
	A full listing of my publications can be found on NASA ADS at https://ui.adsabs.harvard.edu/public-libraries/S0LBTeAgT76HOk	a4muKitQ
	Ten highest-cited publications as a primary author:	-
	I. Bochenek, C., Ravi, V. et al. 2020, A fast radio burst assoc Galactic magnetar, Nature, 587, 59	ciated with a
	II. Shannon, R. M., Ravi, V. et al. 2015, Gravitational waves fir supermassive black holes missing in pulsar observations, 1522	<i>rom binary</i> Science, 349,
	III. Ravi, V. et al. 2019, A fast radio burst localised to a massiv Nature, 572, 352	∕e galaxy,
	IV. Ravi, V. et al. 2016, The magnetic field and turbulence of t measured using a brilliant fast radio burst, Science, 354, 1	he cosmic web 249
	V. Ravi, V., Shannon, R. M., & Jameson, A. 2015, A fast radio direction of the Carina dwarf spheroidal galaxy, ApJL, 779	burst in the
	VI. Shannon, R. M., Ravi, V. et al. 2013, Gravitational-wave lin	nits from pulsar
	VII. Ravi, V. & Lasky, P. D. 2014, The birth of black holes: neutro collapse times, gamma-ray bursts and fast radio bursts, N 2433	ron star INRAS, 441,
	VIII. Ho, A. Y. Q., Phinney, E. S., Ravi, V. et al. 2019, AT2018co Luminous Millimeter Transient, ApJ 871, 73	ow: A
	IX. Yao, Y., Ravi, V., et al. 2023, Tidal Disruption Event Demog the Zwicky Transient Facility: Volumetric Rates, Luminosity Implications for the Local Black Hole Mass Function, ApJI	graphics with / Function, and _, 955, L6
	X. Ravi, V. 2019, <i>The prevalence of repeating fast radio burst</i> Astronomy, 3, 928	s, Nature

Conference	32 major departmental colloquia at institutions in Australia, Canada, Cermany, India, Netherlands, USA, 27 invited presentations at intern	China, ational			
talks and	conferences in Australia, Canada, France, Greece, Indonesia, Israel, Italy,				
seminars	Netherlands, Thailand, USA. See attached listing.				
	Highlights:				
	I. Organizer and SOC chair, <i>FRB2024</i> , Khao Lak, Thailand (Nov 2024)	ember			
	 II. Organizer, invited speaker and chair of a Special Session at the meeting of the American Astronomical Society (Seattle, WA), Science with the DSA-110 (January 2023). 	ne 241st <i>Early</i>			
	III. Organizer, SOC chair and invited speaker, <i>Science with the DSA-2000</i> Workshop I (January 2022).				
	IV. Invited reviews to open two FRB conferences and one ngVLA conference (Weizmann Institute of Science, Israel; FRB2019, Amsterdam, Netherlands, Computational Astrophysics in the pgV/LA Erc				
	 V. Plenary speaker on pulsar timing arrays, 12th Amaldi Confere Gravitational Waves, Pasadena, USA (2017). 	nce on			
	VI. Invited speaker on FRBs, CIFAR Cosmology & Gravity Theme Whistler, Canada (2016).	Heeting,			
	VII. Invited speaker on astrophysics at the Kavli Frontiers of Scier Symposium in Makassar, Indonesia (2015).	ICE			
Professional Service	Caltech Astronomy "TF2035" committee Co-chair, ZTF TDE/AGN science working group Caltech PMA EXP fellowship committee	2024-2025 2023-2024 2023-2025			
	ERC and NWO proposal reviewer Caltech Astronomy graduate admissions committee 2019- (Chair NSF AST Committee of Visitors NRAO proposal review panel NSF review panel Caltech Optical Observatories TAC 2016, 2020, Parkes Pulsar Timing Array steering committee Australia Telescope User's Committee	2022 2021-2023) 2019 2017-2019 2016, 2020 2023 (chair) 2013, 2015 2012-2013			
	Referee Nature, Nature Astronomy, The Astrophysical Journal, Monthly Ne the Royal Astronomical Society, Astrophysics and Space Science	otices of			
	IPTA 2025 Science Meeting LOC chair FRB2024 SOC Chair Organizer, AAS241 special session <i>Early Science with the DSA-110</i> SOC, Astrophysics of FRBs II, Center for Computational Astrophysi Organizer and SOC chair <i>Science with the DSA-2000 Workshop I</i> FRB2021 SOC member Team Lead, Keck Institute for Space Sciences study: <i>The Next-Generation, Ground-Based Planetary Radar</i> Co-organizer: Pasadena Area Postdoc Retreat Co-organizer: International Pulsar Timing Array meeting	2025 2024 2023 cs. 2023 2022 2021 2020-2021 2015-2017 2012			
	Co-organizer: CSIRO ATNF student symposium.	2012			

Vikram Ravi		CV
Professional	Great Basin Astronomy Festival AoT speaker	2024
• • • •	Caltech Seminar Day speaker	2024
Outreach &	Caltech WAVE mentor	2022-2023
Diversity	AAS Press Conference presenter	2022, 2023
	Bishop Astronomy on Tap speaker	2022
Activities	Caltech Astronomy Public Lecture	2020
	Featured on the Newstalk radio show Futureproof with Jonathan	McCrea 2020
	Keynote speaker at CogX	2020
	Mentor for Harvard CfA Science Research Mentoring Program	2018-19
	Los Angeles Astronomy on Tap speaker	2018
	Cerro Coso Community College astronomy lecture (Bishop CA).	2017
	Caltech Freshman Summer Research Institute mentor	2017
	KXSC radio Squaminous Science Hour	2017
	Lecturer, USC Engineering honors program	2017
	Palomar Observatory Greenway Lecturer	2016-2017
	Blue Dot program, North State Public Radio	2016
	University of Melbourne Telescopes in Schools project	2012-2015
	Facilitator with Pulse@Parkes project	2009-2018
	Lecturer, Mt. Burnett Astronomical Society	2014

Departmental colloquia

- 1. Princeton Astrophysics / IAS joint colloquium, April 8, 2025, *The Deep Synoptic Array:* results from the first FRB sample
- 2. Goddard Astrophysics Colloquium, June 4, 2024, *The Deep Synoptic Array: results from the first FRB sample*
- 3. Trottier Space Institute seminar, April 9, 2024, *The Deep Synoptic Array: results from the first FRB sample*
- 4. UC Berkeley Astronomy Colloquium, September 7, 2023, *The Deep Synoptic Array: the origins of fast radio bursts*
- 5. Caltech Physics Colloquium, May 11, 2023, *The Deep Synoptic Array: the origins of fast radio bursts*
- 6. University of Maryland Astronomy Colloquium, April 19, 2023. *Fast Radio Bursts and the Unseen Universe.*
- 7. Stanford Applied Physics / Physics Colloquium, March 7, 2023. *The Deep Synoptic Array: Fast Radio Burst Probes of the Unseen Universe.*
- 8. Cornell Astronomy and Space Sciences Colloquium, April 28, 2022. *Fast Radio Bursts and the Unseen Universe.*
- 9. Jodrell Bank Center for Astrophysics Colloquium, March 10, 2021. *Fast Radio Bursts and the Deep Synoptic Array program.*
- 10. ASTRON Colloquium, January 28, 2021. The Deep Synoptic Array Program.
- 11. UC Berkeley Astronomy Colloquium, June 1, 2020. Towards the origins of fast radio bursts.
- 12. UCLA Astronomy Colloquium, February 12, 2020. Missing matter, missing mass.
- 13. Carnegie Observatories colloquium, September 10, 2019. *Towards the origins of Fast Radio Bursts.*
- 14. Center for Astrophysics | Harvard & Smithsonian Clay Lecture, May 9, 2019. *Fast Radio Bursts.*
- 15. CIERA Astrophysics Seminar, April 9, 2019. Fast Radio Bursts.

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- 16. ASTRON Colloquium, November 29, 2018. *Radio-wavelength searches for the basis of dark matter.*
- 17. NRAO Socorro Colloquium, February 23, 2018. Radio-wavelength searches for the basis of dark matter.
- 18. Shanghai Astronomical Observatory Seminar, October 27, 2017. The ten-element prototype of the Deep Synoptic Array (DSA-10) for FRB localization
- 19. Caltech Astronomy Colloquium, October 26, 2016. Fast Radio Bursts from Across the Universe?
- 20. UCLA Physics and Astronomy Colloquium, October 20, 2016. Fast Radio Bursts from Across the Universe?
- 21. Swinburne Centre for Astrophysics and Supercomputing Colloquium, June 9, 2016. *Do Fast Radio Bursts Originate at Cosmological Distances?*
- 22. University of Melbourne Astrophysics Seminar, June 8, 2016. *Do fast radio bursts originate at cosmological distances?*
- 23. Arecibo Observatory Colloquium, May 23, 2016. The Fast Radio Burst Zoo.
- 24. Stanford KIPAC Seminar, May 3, 2016. Fast radio bursts.
- 25. Fermilab Astrophysics Seminar, February 22, 2016. Pulsar timing limit on gravitational waves necessitates re-assessment of binary supermassive black hole population
- 26. McGill Space Institute Seminar, February 2, 2016. A tale of two fast radio bursts
- 27. JPL Astrophysics lunch seminar, September 28, 2015. *Gravitational-wave limit forces rethink of supermassive black hole evolution*
- 28. Monash Centre for Astrophysics Colloquium, March 24, 2015. *Binary supermassive black hole evolution rethought.*
- 29. Albert Einstein Institute (Golm) Colloquium, June 12, 2014. Astrophysical predictions for gravitational waves from binary SMBHs / Fast radio bursts following short GRBs.
- 30. Curtin Institute for Radio Astronomy Colloquium, May 29, 2014. *Choose your own adventure! Fast radio bursts.*
- 31. CSIRO Astronomy and Space Science Colloquium, May 21, 2014. What gravitational-wave observations can tell us about the super-massive black hole population of the Universe.
- 32. TIFR Bombay Astrophysics Seminar, February 17, 2012. *Gravitational wave astrophysics with pulsar timing arrays.*

Invited presentations at international conferences

- 1. IPTA Meeting 2024, Sexten, Italy, June 24-28, 2024. PTA Science with the DSA-2000.
- 2. Towards a physical understanding of tidal disruption events, KITP, Santa Barbara, CA, April 22 May 17, 2024. *Radio TDEs.*
- 3. Astrophysics of FRBs II, Center for Computational Astrophysics, New York City, NY, September 11-13, 2023. *DSA-2000.*
- 4. Special Session on *Early Science with the DSA-110* at AAS 241, January 8, 2023. *The DSA-110.*
- 5. IPTA Meeting (online), June 21-23, 2022. The DSA-2000.
- 6. Computational Astrophysics in the ngVLA Era, Center for Computational Astrophysics, New York City, NY, June 7-9, 2022. *The Dynamic Universe: What Comes Next?*

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- 7. Black Hole Initiative Annual Conference, May 18-20, 2022, Cambridge, MA. *How do black holes earn their living?*
- 8. Astrophysics of FRBs, Center for Computational Astrophysics, New York City, NY, February 3-5, 2020. *DSA Update.*
- 9. FRB2019: Fast Radio Bursts and their Possible Neutron-Star Origins, Amsterdam, Netherlands, February 18-20, 2019. Opening review on *What we know about FRBs.*
- 10. Workshop on Fast Radio Bursts, Weizmann Institute of Science, Israel, December 3-13, 2018. Opening review on Observations of Fast Radio Bursts.
- 11. The Power of Faraday Tomography Towards 3D Mapping of Cosmic Magnetic Fields, Miyazaki, Japan, May 28 - June 2, 2018. *FRB measurements of circum- and inter-galactic magnetic fields.*
- 12. FRB2018: Finding and Understanding Fast Radio Bursts, Melbourne, Australia, February 14-16, 2018. *Imagining, and realizing, the ultimate FRB instrument.*
- 13. The Edoardo Amaldi Conference on Gravitational Waves, Pasadena, CA, July 9-14, 2017. Plenary talk on *Pulsar timing and gravitational waves.*
- 14. Developing the ngVLA Science Program Workshop, Socorro, NM, June 26-29, 2017. *How the ngVLA can enable gravitational-wave science.*
- 15. Workshop on Fast Radio Bursts, Montreal, Canada, June 13-15, 2017. *Localizing the brightest FRBs.*
- 16. The Labyrinth of the Unexpected, Kerastari, Greece, May 29 June 3, 2017. *Fast Radio Burst Philately.*
- 17. Hot-wiring the Transient Universe V, Philadelphia, PA, October 10-14, 2016. *The hottest transients in the Universe.*
- 18. GRavitational-wave Astronomy Meeting in Paris (GRAMPA), Paris, France, August 29 -September 2, 2016. *Pulsar timing arrays: spanning the chasm between GW source theory and observation.*
- 19. Boutiques & Experiments 2016, Pasadena, CA, July 21-23, 2016. DSA-10.
- 20. 21st International Conference on General Relativity and Gravitation, New York City, NY, July 10-15, 2016. *Predictions for the GWB from binary SMBHs given PTA constraints.*
- 21. CIFAR Cosmology & Gravitation Theme Meeting, Whistler, CA, March 30 April 2, 2016. *Ultra-bright fast radio bursts.*
- 22. Boutiques & Experiments 2015, Pasadena, CA, August 28-29, 2015. *Molonglo: Refurbished & Resurgent.*
- 23. Kavli Frontiers of Science Indonesian-American Symposium, Makassar, Indonesia, July 28-31, 2015. Using a Galaxy-Sized Telescope to Rethink Supermassive Black Hole Evolution.
- 24. International Pulsar Timing Array Science Meeting, Banff, Canada, June 23-27, 2014. *Vikram's Thoughts on Interpreting GWB Constraints.*
- 25. Extreme Astrophysics in an Ever-Changing Universe, Ierapetra, Greece, June 16-20, 2014. *Choose your own adventure! Fast radio bursts.*
- 26. International Pulsar Timing Array Science Meeting, Krabi, Thailand, June 23-28, 2013. *The surprising effects of SMBH binary eccentricities and environmental interactions on the GWB.*
- 27. Evolutionary Map of the Universe Meeting, Pasadena, CA, August 23-25, 2010. *Identifying radio stars.*