## Marc Teng Yen Hon

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Principal Interests	Asteroseismology, Stellar Evolution, Exoplanetary Science Machine Learning	2,	
Research Experience	Institute for Astronomy, University of Hawai'i at Mānoa NASA Hubble Fellow, Nov 2020 - Present Unraveling the History of the Galaxy with TESS Asteroseismology Advisor: Prof. Daniel Huber		
Education	UNSW Sydney, New South Wales, Australia Doctor of Philosophy, Astrophysics, July 2020 Thesis: Deep Learning in Asteroseismology Advisor: Prof. Dennis Stello		
	University of Wollongong, New South Wales, Aust Bachelor of Science Advanced (1 <sup>st</sup> Class Honours), Physics and Mathematics, December 2015 Thesis: Magnetic Vortices in Micro-magnetic Materials Advisor: Prof. Alexey Pan	tralia	
Awards and Scholarships	NASA Hubble Fellowship Program UNSW Dean's Award for Outstanding PhD Theses Nvidia Developer Grant UNSW International Scholarship University of Wollongong (UoW) University Medal UoW Australian Institute of Physics Prize UoW Kittel-Lewis Prize UoW David Martin Award UoW Australian Institute of Physics Prize	2021-present 2021 2018 2016 2015 2015 2015 2015 2015	
Outreach and Presentations	— Global Malaysian Astronomers Convention, Kuala Lumpur, Malaysia (Invited)	2023	
	— American Astronomical Society 241, Winter Meeting, Washington, Seattle	2023	

2022

— AMNH Astro Seminar, AMNH, New York, USA (Invited)

	— TESS Science Talk MIT, Cambridge, USA (Invited)	2022	
	— Cosmic Origins Program Seminar Series,	2022	
	NASA Stars Science Interest Group (Invited)		
	— Science, Mathematics and Technology Seminar Series	2022	
	SUTD, Singapore (Invited)		
	— TESS Science Conference II, MIT, Cambridge, USA	2021	
	(Contributed Talk)		
	— Astronomy Colloquium, Yale University,	2021	
	New Haven, USA (Invited)		
	— Institute for Astronomy Colloquium,	2021	
	University of Hawai'i, USA (Invited)		
	— TASC-5/KASC-12 Conference, MIT, Cambridge, USA	2019	
	(Contributed Talk)		
	— TASC-4/KASC-11 Conference,	2018	
	Stellar Astrophysics Center, Aarhus, Denmark (Contribut	ted Talk)	
	— SAGE Seminar, Max Planck Institute for Solar System	*	
	Research, Göttingen, Germany (Invited)		
	— Stars in Sydney Conference, Macquarie University,	2017	
	Sydney, Australia (Contributed Talk)		
Teaching	Research Supervisor, Institute for Astronomy, Ha		
Experience	— ASTR699 Research (Keyan Gootkin)	2022-present	
	— Research Experiences for Undergraduates	2022-present	
	Academic Lecturer, Institute for Astronomy, Haw		
	— ASTR 631 Radiative Transfer Stellar Atmospheres	2022	
	Academic Tutor, School of Physics, UNSW Sydne	*	
	— PHYS3116 – Astrophysics Tutor	2019	
	— PHYS3116 – Astrophysics Lecturer	2018	
	Research Supervisor, School of Physics, UNSW Sydney		
	— PhD research co-mentor (Claudia Reyes)	2021-present	
	— Honours research co-mentor	2018-2021	
	(Lauren Taylor, Rudy Xu, Tommy Lee)		
	— Taste for Research Undergraduate program	2018-2020	
	(Noah Vinod, David Nguyen, Ryan Oldfield)		
	— MSc research co-mentor (Shabib Rizvi)	2017	
	Lab Assistant, University of Wollongong		
	— PHYS141/142 Fundamentals of Physics	2015	
	— PHYS225 Electromagnetism and Optoelectronics	2015	

Professional Membership	— Malaysia Olympiad on Astronomy & Astrophysics council member	2023-present
and Service	— Institute for Astronomy Colloquium Committee	2022-present
	— Journal Referee for <i>The Astrophysical Journal</i>	2020-present
	— Journal Referee for Monthly Notices of the Royal	2019-present
	Astronomical Society	2010 prosent
	— Journal Referee for Astronomy & Astrophysics	2018-present
	— Astronomical Society of Australia Member	2017-2021
	— APOGEE-2-Kepler Asteroseismology and	2017-2021 2018-present
	Chemical Abundance Collaboration	2010-present
		2017 magant
	— TESS Asteroseismic Science Consortium	2017-present
	— TESS Data for Asteroseismology Core Member	2016
	— Kepler Asteroseismic Science Consortium	2016-present
Proposals	— Confirming Gaia Binaries with Impossibly Small	2023
	Separations, Keck I, 10h, PI	
	— Fossil Magnetic Fields at the Surface of Seismically	2022
	Peculiar Red Giants, CHFT, 10h, PI	
	— Confirming the First Close-in Planet Surviving Host	2021-2022
	Giant Star Evolution, Keck I + CHFT, $2n + 10h$ , PI	
	—TESS's Ear on The Metal-Poor Milky Way, TESS GI	2022
	Cycle 5, Co-I	
	— Exploring the Planet Population Around Evolved Stars	2021
	with TESS, TESS GI Cycle 4, Co-I	
	— The K2-HERMES follow-up program, AAT, <b>69n</b> , <b>Co-I</b>	2016-2019
	— The HERMES-TESS program, AAT, 31n, Co-I	2016-2018
	The HERWIES TESS program, That, orn, co r	2010 2010
Selected	— "NASA's TESS Tunes into an All-sky 'Symphony' of	Aug 2021
Press	Red Giant Stars", NASA	O
	— "An all-sky red giant star symphony", EarthSky	Aug 2021
	— "Stellar pulses are transformed into a celestial	Aug 2021
	symphony", Space.com	1148 2021
	— "How AI Can Determine the Future of Red Giants Like	Aug 2017
	Our Sun", Nvidia Blog	
	— "Scientists Are Using Artificial Intelligence to Plot the	May 2017
	Galaxy", Inverse	
Observing	Angle Australian Talescope 2.0 meter HEDMES anastrome	unh Onighta
Observing Experience	Anglo-Australian Telescope 3.9 meter, HERMES spectogra	ph 9 nights

**References** Daniel Huber

Assistant Astronomer (faculty) Email: huberd@hawaii.edu

Institute for Astronomy

University of Hawai'i – Manoa

Dennis Stello

Associate Professor Email: d.stello@unsw.edu.au

School of Physics UNSW Sydney

Marc Pinsonneault

Professor Email: pinsonneault.1@osu.edu

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