

# Marc Teng Yen Hon

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School of Physics, UNSW Sydney  
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**Principal Interests** Asteroseismology, Red Giants, Stellar Physics, Stellar Populations, Deep Learning, Artificial Intelligence, Machine Learning.

**Education** **UNSW Sydney, New South Wales, Australia**  
*Doctor of Philosophy*, Astrophysics, March 2020 (Expected)  
Thesis: Artificial Intelligence in Red Giant Asteroseismology  
Advisor: Dennis Stello

**University of Wollongong, New South Wales, Australia**  
*Bachelor of Science Advanced (First Class Honours)*, Physics and Mathematics, December 2015  
Thesis: Magnetic Vortices in Micro-magnetic Materials  
Advisor: Alexey Pan

**Awards and Scholarships** Nvidia Developer GPU Grant 2018  
UNSW International Tuition Fee Scholarship 2016  
University of Wollongong (UoW) University Medal 2015  
UoW Australian Institute of Physics Prize 2015  
UoW Kittel-Lewis Prize 2015  
UoW David Martin Award 2015  
UoW Australian Institute of Physics Prize 2015

**Presentations** TASC-5/KASC-12, MIT, Cambridge, USA 2019  
(Contributed Talk)  
TASC-4/KASC-11, Stellar Astrophysics Center, Aarhus, Denmark (Contributed Talk) 2018  
Computational Physics Lecture, UNSW Sydney, Sydney, Australia (Guest Lecture) 2018  
SAGE Seminar, Max Planck Institute for Solar System Research, Göttingen, Germany (Invited Talk) 2018  
Stars in Sydney, Macquarie University, Sydney, Australia (Contributed Talk) 2017  
TASC-3/KASC-10, Birmingham University, Birmingham, England (Contributed Poster) 2017

<b>Teaching Experience</b>	<b>Academic Tutor, School of Physics, UNSW Sydney</b>	
	Third-year Astrophysics	Semester 3 2019
	<b>Research Supervisor, School of Physics, UNSW Sydney</b>	
	Honours project co-supervisor	2019
	Taste of Research undergraduate program (6 students)	2017-2019
	<b>Teaching Assistant, University of Wollongong</b>	
	First-year Physics	2015
	Second-year Electromagnetism	2015
<b>Membership and Community Service</b>	<i>TESS</i> Asteroseismic Science Consortium Member	2016-present
	Journal Referee for <i>Astronomy &amp; Astrophysics</i>	2018-present
	Astronomical Society of Australia Member	2017-present
<b>Observing Experience</b>	Anglo-Australian Telescope 3.9 meter, HERMES spectograph	9 nights
<b>Proposals</b>	The K2-HERMES follow-up program, AAT, <b>69n, Co-I</b>	2016-2019
	The HERMES-TESS program, AAT, <b>31n, Co-I</b>	2016-2018
<b>Selected Press</b>	"How AI Can Determine the Future of Red Giants Like Our Sun", <a href="#">Nvidia Blog</a>	Aug 2017
	"Scientists Are Using Artificial Intelligence to Plot the Galaxy", <a href="#">Inverse</a>	May 2017