

YUK YING CHAN

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EDUCATION

The University of Hong Kong <i>M. Phil. in Physics</i> Supervisor: Dr. C.-Y. Ng Radio analysis on pulsars and pulsar wind nebulae Multi-wavelength modeling of pulsar wind nebulae	2017 – present
The University of Hong Kong <i>B. Sc. (Second Class Honours Division I)</i> <i>Major in Physics and Minor in Astronomy</i>	2013 – 2017

AWARDS AND ACHIEVEMENTS

Postgraduate Scholarship <i>The University of Hong Kong</i>	2017 – 2019
William Faid Memorial Prize in Physics	2016
Lam Fang Kwong Prize in Physics	2015
Dean's Honours List (2 awards) <i>Faculty of Science, The University of Hong Kong</i>	2015 – 2016
Silver Award for Volunteer Service <i>Social Welfare Department, HKSAR</i>	2011

RESEARCH AND OBSERVATION EXPERIENCE

Australia Telescope Compact Array Observations Two pulsar binning observations	Jan 2018
Radio Astronomy School CSIRO Astronomy and Space Science	Oct 2017
Research Assistant <i>Department of Physics, The University of Hong Kong</i> Supervisor: Dr. C.-Y. Ng Reduced VLA data to search for the radio counterparts of three X-ray bow-shock pulsar wind nebulae and verified that they do not have any radio counterparts	June 2017 – Aug 2017
Directed Studies in Physics <i>Department of Physics, The University of Hong Kong</i> Supervisor: Prof. K.S. Cheng Performed a <i>Fermi</i> analysis on two pulsars in low-mass X-ray binaries, PSRs J1023+0038 and J2021+4026 and discovered that there are modulations in both light curves and spectra before and after glitches.	Jan 2017 – Jun 2017
Research Assistant <i>Department of Physics, The University of Hong Kong</i> Supervisors: Prof. Tom Broadhurst & Dr. Jeremy Lim Developed python imaging codes	Jul 2015 – Aug 2015

CONFERENCE PRESENTATION

“Probing the Injected Particle Spectrum of the Mouse Pulsar Wind Nebula,” 233rd Meeting of the American Astronomical Society, Seattle, the United States, Jan 2019

ORIGINAL WORK

Chan, Y.Y. 2017, *“Study of the Fermi Variable Pulsars.”* (undergraduate directed studies research project)

SCIENCE OUTREACH EXPERIENCE

Physics Department Summer Local Internship 2016 June 2016 – Aug 2016

Ho Koon Nature Education cum Astronomical Centre

Support in astronomy classes, giving mini lectures with the planetarium, designing teaching materials and, writing science articles for the Ho Koon homepage and the Facebook fanpage

TEACHING QUALIFICATION AND EXPERIENCE

Certificate of Teaching and Learning in Higher Education 2018

Centre for the Enhancement of Teaching and Learning, The University of Hong Kong

Teaching Assistant 2017 – 2019

PHYS4653 Cosmology

Sep 2018 – Dec 2018

PHYS4650 Stellar Physics

Jan 2018 – Aug 2018

PHYS3651 The Physical Universe

Sep 2017 – Dec 2017

Department of Physics, The University of Hong Kong

Head Laboratory Tutor 2017 – 2019

PHYS1050 Physics For Engineering Students

PHYS1250 Fundamental Physics

Department of Physics, The University of Hong Kong

Student Peer Adviser 2015 – 2017

Faculty of Science, The University of Hong Kong

SKILLS

CASA, Fermi tools, Python, Mathematica, MATLAB, shell scripts, and L^AT_EX