DR. WEI CHIEH (MASON) NG

Massachusetts Institute of Technology

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EDUCATION

Massachusetts Institute of Technology (MIT)

Sep 2018 - May 2024

Ph.D. in Physics, Conferred May 30, 2024

Advisor: Professor Deepto Chakrabarty; GPA: 4.60/5.00

Thesis: Multifaceted Understanding of Accreting Neutron stars and their Environments

The University of Auckland

2017

Bachelor of Science (Honours) in Physics

Advisor: Professor Richard Easther; GPA: 8.63/9.00

Thesis: Inflationary Model Selection ft. Dark Matter in the CMB

The University of Auckland

2014 - 2016

Bachelor of Science

Majors: Physics and Mathematics; GPA: 8.74/9.00

RESEARCH EXPERIENCE

MIT Kavli Institute for Astrophysics and Space Research

May 2024 - present

Postdoctoral Research Associate

X-ray pulsation searches, timing, spectroscopic, and polarimetric analyses of pulsars (NICER/NuSTAR/Chandra/IXPE/XMM-Newton/Swift/RXTE/AstroSat data)

Massachusetts Institute of Technology

Sep 2018 - May 2024

Graduate Research Assistant, Advisor: Prof. Deepto Chakrabarty

X-ray pulsation searches, timing, spectroscopic, and polarimetric analyses of pulsars (NICER/NuSTAR/Chandra/IXPE/XMM-Newton/Swift/RXTE/AstroSat data)

Australian National University

Feb 2018 - Jul 2018

Graduate Research Assistant, Advisor: Prof. Martin Asplund

Modeling stellar atmospheres in 3D with different magnetic field configurations and strengths

Swinburne University of Technology

Dec 2017 - Feb 2018

Summer Vacation Scholar, Advisors: Dr. Nikki Nielsen and Assoc. Prof. Glenn Kacprzak

Kinematics of the OVI Circumgalactic Medium: Halo Mass Dependence and Outflow Signatures

The University of Auckland

Feb 2017 - Nov 2017

BSc (Honours) Student, Advisor: Prof. Richard Easther

Inflationary Model Selection ft. Dark Matter in the CMB

Australian National University

Nov 2016 - Feb 2017

Summer Scholar, Advisors: Assoc. Prof. Christian Wolf and Dr. Christopher Onken

Diagnosing poor seeing of the SkyMapper telescope

The University of Auckland

Dec 2015 - Feb 2016

Summer Research Scholar, Advisor: Assoc. Prof. Jan Jamie Eldridge

Modelling the emergent spectra of hot, massive stars to update the Binary Population and Spectral Synthesis (BPASS) code

PROFESSIONAL SERVICE

Referee 2023 - now

Journals: The Astrophysical Journal, Monthly Notices of the Royal Astronomical Society, Astronomy & Astrophysics

Graduate Student Member

2021 - now

IXPE Collaboration [Working Groups: Science Analysis and Simulations, Magnetars, and the Accreting White Dwarfs and Neutron Stars]

Graduate Student Member

2019 - now

NICER Science Team [Working Groups: Searches and Multiwavelength Coordination (from 2019), Bursts and Accretion Physics (from 2020), and Magnetars & Magnetospheres (from 2021)]

PUBLICATIONS

Also part of over **40 Astronomer's Telegrams** and GCN Circulars (led 11 of them).

First-author

- 6) Mason Ng, et al. 2024. NICER Discovery that SRGA J144459.2-604207 is an Accreting Millisecond X-ray Pulsar. ApJ, 968, L7. DOI: 10.3847/2041-8213/ad4edb
- 5) Mason Ng, et al. 2024. X-ray and Radio Monitoring of the Neutron Star Low Mass X-ray Binary 1A 1744-361. ApJ, 966, 232. DOI: 10.3847/1538-4357/ad35bd
- 4) Mason Ng, et al. 2022. Spectral Evolution of Ultraluminous X-ray Pulsar NGC 300 ULX-1. ApJ, 940, 138. DOI: 10.3847/1538-4357/ac9965
- 3) Herman L. Marshall, Mason Ng, et al. (IXPE Collaboration + Norbert S. Schulz, Deepto Chakrabarty) 2022. Observations of $4\overline{U}$ 1626-67 with the Imaging X-ray Polarimetry Explorer. ApJ, 940, 70. DOI: 10.3847/1538-4357/ac98c2
- 2) Mason Ng, Paul S. Ray, Peter Bult, Deepto Chakrabarty, et al. 2021. NICER Discovery of Millisecond Pulsations and an Ultracompact Orbit in IGR J17494–3030. ApJ, 908, L15. DOI: 10.3847/2041-8213/abe1b4
- 1) M. Ng, N.M. Nielsen, G.G. Kacprzak et al. 2019. Kinematics of the OVI Circumgalactic Medium: Halo Mass Dependence and Outflow Signatures. ApJ, 886, 66. DOI: 10.3847/1538-4357/ab48eb

Co-author

- 36) Alessandro Papitto, et al. (24 co-authors including M. Ng) 2024. Discovery of Polarized X-Ray Emission from the Accreting Millisecond Pulsar SRGA J144459.2-604207. Submitted. arXiv:2408.00608
- 35) A. Marino, et al. (34 co-authors including **M. Ng**) 2024. Einstein Probe discovery of a super-soft outburst from CXOUJ005245.0722844: a rare BeWD binary in the Small Magellanic Cloud. Submitted. arXiv:2407.21371
- 34) Sofia V. Forsblom, et al. (15 Tier 1 co-authors including **Mason Ng**) 2024. Probing the polarized emission from SMC X-1: the brightest X-ray pulsar observed by IXPE. Submitted. arXiv:2406.08988
- 33) Yash Bhargava, Mason Ng et al. 2024. X-ray and Radio campaign of the Z-source GX 340+0: discovery of X-ray polarization and its implications. Submitted. arXiv:2405.19324

- 32) Anna Bobrikova, et al. (24 Tier 1 co-authors including **Mason Ng**) 2024. Discovery of a strong rotation of the X-ray polarization angle in the galactic burster GX 13+1. A&A, 688, 170. DOI: 10.1051/0004-6361/202449318
- 31) Birendra Chhotaray, et al. (6 co-authors including **Mason Ng**) 2024. Long-term study of the first Galactic ultraluminous X-ray source Swift J0243.6+6124 using NICER. ApJ, 963, 132. DOI: 10.3847/1538-4357/ad235d
- 30) Jeremy Heyl, et al. (10 Tier 1 co-authors including **Mason Ng**) 2024. The detection of polarized x-ray emission from the magnetar 1E 2259+586. MNRAS, 527, 12219. DOI: 10.1093/mnras/stad3680
- 29) Manoj Mandal, et al. (12 co-authors including **Mason Ng**) 2023. Probing spectral and timing properties of the X-ray pulsar RX J0440.9+4431 in the giant outburst of 2022-2023. MNRAS, 526, 771. DOI: 10.1093/mnras/stad2767
- 28) Roberto Turolla, et al. (15 Tier 1 co-authors including **Mason Ng**) 2023. *IXPE and XMM-Newton observations of the Soft Gamma Repeater SGR 1806-20*. ApJ, 954, 88. DOI: 10.3847/1538-4357/aced05
- 27) A. C. Albayati, et al. (12 co-authors including **M. Ng**) 2023. Thermonuclear Type-I X-ray Bursts and Burst Oscillations from the Eclipsing AMXP Swift J1749.4-2807. MNRAS, 524, 2477. DOI: 10.1093/mnras/stad1892
- 26) Christian Malacaria, et al. (19 Tier 1 co-authors including Mason Ng) 2023. A polarimetric-oriented X-ray stare at the accreting pulsar EXO 2030+375. A&A, 675, 29. DOI: 10.1051/0004-6361/202346581
- 25) G. K. Jaisawal, et al. (9 co-authors including M. Ng) 2023. On the cyclotron absorption line and evidence of the spectral transition in SMC X-2 during 2022 giant outburst. MNRAS, 521, 3951. DOI: 10.1093/mnras/stad781
- 24) Paul A. Draghis, et al. (9 co-authors including **Mason Ng**) 2023. The Spin of a Newborn Black Hole: Swift J1728.9-3613. ApJ, 947, 39. DOI: 10.3847/1538-4357/acc1c8
- 23) Mayura Balakrishnan, et al. (14 co-authors including **Mason Ng**) 2023. The Black Hole Candidate Swift J1728.9-3613 and the Supernova Remnant G351.9-0.9. ApJ, 947, 38. DOI: 10.3847/1538-4357/acc1c9
- 22) G. C. Mancuso, et al. (10 co-authors including M, Ng) 2023. Detection of millihertz quasi-periodic oscillations in the low-mass X-ray binary 4U 1730–22 with NICER. MNRAS, 521, 5616. DOI: 10.1093/mnras/stad949
- 21) Silvia Zane, et al. (26 Tier 1 co-authors including Mason Ng) 2023. A strong X-ray polarization signal from the magnetar 1RXS J170849.0-400910. ApJL, 944, 27. DOI: 10.3847/2041-8213/acb703
- 20) Giulia Illiano, et al. (21 co-authors including **Mason Ng**) 2022. Timing analysis of the 2022 outburst of SAX J1808.4-3658: hints of an orbital shrinking. ApJL, 942, 40. DOI: 10.3847/2041-8213/acad81
- 19) C. Malacaria, et al. (13 co-authors including **M. Ng**) 2022. The unaltered pulsar: GRO J1750-27, a super-critical X-ray neutron star that does not blink an eye. A&A, 669, 38. DOI: 10.1051/0004-6361/202245123
- 18) Sergey S. Tsygankov, et al. (17 Tier 1 co-authors including **Mason Ng**) 2022. The X-ray polarimetry view of the accreting pulsar Cen X-3. ApJL, 941, 14. DOI: 10.3847/2041-8213/aca486

- 17) Peter Bult, et al. (13 co-authors including **Mason Ng**) 2022. The thermonuclear X-ray bursts of 4U 1730-22. ApJ, 940, 81. DOI: 10.3847/1538-4357/ac9b26
- 16) Roberto Taverna, et al. (21 Tier 1 co-authors including **Mason Ng**) 2022. *Polarized x-rays from a magnetar*. Science, 378, 646. DOI: 10.1126/science.add0080
- 15) A. Sanna, et al. (14 co-authors including M. Ng) 2022. MAXI J1957+032: a new accreting millisecond X-ray pulsar in an ultra-compact binary. MNRAS, 516, L76. DOI: 10.1093/mnrasl/slac093
- 14) Peter Bult, et al. (17 co-authors including **Mason Ng**) 2022. The Discovery of the 528.6 Hz Accreting Millisecond X-Ray Pulsar MAXI J1816-195. ApJL, 935, 32. DOI: 10.3847/2041-8213/ac87f9
- 13) Tolga Guver, et al. (13 co-authors including **Mason Ng**) 2022. Burst-Disk Interaction in 4U 1636-536 as observed by NICER. ApJ, 935, 154. DOI: 10.3847/1538-4357/ac8106
- 12) A. Marino, et al. (20 co-authors including M. Ng) 2022. Outflows and spectral evolution in the eclipsing AMXP SWIFT J1749.4-2807 with NICER, XMM-Newton and NuSTAR. MNRAS, 515, 3838. DOI: 10.1093/mnras/stac2038
- 11) Kishalay De, et al. (26 co-authors including **Mason Ng**) 2022. SRGA J181414.6-225604: A New Galactic Symbiotic X-Ray Binary Outburst Triggered by an Intense Mass-loss Episode of a Heavily Obscured Mira Variable. ApJ, 935, 36. DOI: 10.3847/1538-4357/ac7c6e
- 10) A. Sanna, et al. (17 co-authors including **M. Ng**) 2022. On the peculiar long-term orbital evolution of the eclipsing accreting millisecond X-ray pulsar SWIFT J1749.4-2807. MNRAS, 514, 4385. DOI: 10.1093/mnras/stac1611
- 9) R. M. Ludlam, et al. (10 co-authors including **Mason Ng**) 2022. Radius Constraints from Reflection Modeling of Cygnus X-2 with NuSTAR and NICER. ApJ, 927, 112. DOI: 10.3847/1538-4357/ac5028
- 8) Pasham, D.R., et al. (18 co-authors including **Mason Ng**) 2021. Evidence for a compact object in the aftermath of the extragalactic transient AT2018cow. Nat Astron., 6, 249. DOI: 10.1038/s41550-021-01524-8
- 7) The LIGO Scientific Collaboration; the Virgo Collaboration; the KAGRA Collaboration (including Mason Ng) 2021. Search for continuous gravitational waves from 20 accreting millisecond X-ray pulsars in O3 LIGO data. Phys. Rev. D 105, 022002. DOI: 10.1103/PhysRevD.105.022002
- 6) Yuhan Yao, et al. (27 co-authors including **Mason Ng**) 2020. A Comprehensive X-ray Report on AT2019wey. ApJ, 920, 121. DOI: 10.3847/1538-4357/ac15f8
- 5) Teruaki Enoto, Mason Ng et al. 2021. A Month of Monitoring the New Magnetar Swift J1555.2-5402 during an X-Ray Outburst.. ApJ, 920, L4. DOI: 10.3847/2041-8213/ac2665
- 4) D. J. K. Buisson, et al. (including **Mason Ng**) 2021. Dips and eclipses in the X-ray binary Swift J1858.6-0814 observed with NICER. MNRAS, 503, 5600. DOI: 10.1093/mnras/stab863
- 3) Peter Bult, et al. (including **Mason Ng**) 2021. Long term coherent timing of the accreting millisecond pulsar IGR J17062-6143. ApJ, 912, 120. DOI: 10.3847/1538-4357/abf13f
- 2) Peter Bult, et al. (12 co-authors including Mason Ng) 2020. The X-ray bursts of XTE J1739-285: a NICER sample. ApJ, 907, 79. DOI: 10.3847/1538-4357/abd54b
- 1) J.J. Eldridge, E.R. Stanway, et al. (7 co-authors including M. Ng) 2017. Binary Population and Spectral Synthesis Version 2.1: construction, observational verification and new results. PASA, 34, 58. DOI: 10.1017/pasa.2017.51

ACCEPTED OBSERVING PROPOSALS AS PI HST Cycle 32 (co-PI) 2024 An ultraviolet time-domain survey of the compact binary population in 47 Tucanae. Chandra (DDT) 2023 Tracking the Ne X Accretion Disk Line Emission of Ultracompact X-ray Binary 4U 1626-67 Across a Torque Reversal (60 ks). NuSTAR (DDT) 2023 Monitoring the Pulse Profile and Spectroscopic Evolution Across the Latest Torque Reversal of 4U 1626-67 (90 ks). 2023 NICER (AO5) Detecting Millisecond X-ray Pulsations and Confirming the Ultracompact Nature of the Low Mass X-ray Binary 4U 1850-087 (20 ks) NICER (AO4) 2022 Time-Resolved Spectroscopic and Polarimetric Studies of 4U 1626-67 with NICER and IXPE (40 ks). Swift ToO Observations 2022 - present Total of 7 ks over 2 sources **NICER ToO Observations** 2021 - present Total of 427 ks over 13 sources **PRESENTATIONS** * = VirtualInvited Talk - Joint NICER/IXPE Workshop 2024 Jul 2024 IXPE Data Analysis with ixpeobssim Seminar - Chungbuk National University Jul 2024 Multifaceted Understanding of Accreting Neutron stars and their Environments Jul 2024 Seminar - Chungnam National University Exploring the Frontier of Physics with Neutron Stars Contributed Talk - COSPAR - Busan, South Korea Jul 2024 $Understanding\ Polarization\ Angle\ Variations\ in\ Neutron\ Stars$ Contributed Talk (Substitution) - COSPAR - Busan, South Korea Jul 2024 Magnetar X-ray Polarization Results and Implications Seminar - INAF-OAR Jun 2024 Probing the Atoll/Z Continuum with Neutron Star Low Mass X-ray Binary 1A 1744-361. Seminar - INAF-IAPS Jun 2024

Poster - XMM-Newton 2024 Science Workshop: The X-ray Mysteries of Neutron Stars and White Dwarfs Jun 2024

Probing the Atoll/Z Continuum with Neutron Star Low Mass X-ray Binary 1A 1744-361.

Probing the Atoll/Z Continuum with Neutron Star Low Mass X-ray Binary 1A 1744-361.

Contributed Talk - 21st Divisional Meeting of the High Energy Astro. Division Apr 2024 Probing the Atoll/Z Continuum with Neutron Star Low Mass X-ray Binary 1A 1744-361

Dissertation Talk - 243rd Meeting of the American Astronomical Society X-ray and Radio Monitoring of the Neutron Star Low Mass X-ray Binary 1A 1744–361: Q Oscillations, Transient Ejections, and a Disk Atmosphere	Jan 2024 Quasi Periodic
*Invited Talk - Washington University in St. Louis Multifaceted Understanding of Accreting Neutron stars and their Environments: An X-ray Focus	Dec 2023 Polarimetric
Special Astrophysics Seminar - McGill University Multifaceted Understanding of Accreting Neutron stars and their Environments: An X-ray Focus	Dec 2023 Polarimetric
Department Lunch Talk (Astronomy) - UC Berkeley Multifaceted Understanding of Accreting Neutron stars and their Environments: An X-ray Focus	Nov 2023 Polarimetric
Astronomy Tea Talk - Caltech Multifaceted Understanding of Accreting Neutron stars and their Environments: An X-ray Focus	Nov 2023 Polarimetric
KIPAC Tea Talk - Stanford University Understanding Neutron Star Geometry through the Lens of X-ray Polarization	Nov 2023
Seminar - NASA Goddard Space Flight Center Probing the Accretion Geometry of Neutron Stars with X-ray Polarization	Oct 2023
Seminar - U.S. Naval Research Laboratory Probing the Accretion Geometry of Neutron Stars with X-ray Polarization	Oct 2023
Seminar - University of Michigan Probing the Accretion Geometry of Neutron Stars with X-ray Polarization	Oct 2023
Poster - 20th Divisional Meeting of the High Energy Astrophysics Division Discovery of a 7.8 Hz QPO from the High-Intensity Outburst of Dipping NS LMXB 1A	Mar 2023 1744–361
Poster - 20th Divisional Meeting of the High Energy Astrophysics Division IXPE Observations of the Pulsar $4U$ $1626-67$	Mar 2023
Contributed Talk - 241st Meeting of the American Astronomical Society IXPE Observations of the Pulsar $4U$ $1626-67$	Jan 2023
Seminar - Nanyang Technological University IXPE Observations of the Neutron Star Low-Mass X-ray Binary 4U 1626-67	Dec 2022
Seminar - JAXA/ISAS IXPE Observations of the Neutron Star Low-Mass X-ray Binary 4U 1626-67	Nov 2022
Seminar - Kyoto University IXPE Observations of the Neutron Star Low-Mass X-ray Binary 4U 1626-67	Nov 2022
*Contributed Talk - Astrophysical Polarimetry in the Time-Domain Era $IXPE\ Observations\ of\ the\ Pulsar\ 4U\ 1626-67$	Sep 2022
Contributed Talk - COSPAR - Athens, Greece IXPE Observations of the Pulsar 4U 1626-67	Jul 2022

Poster - 19th Divisional Meeting of the High Energy Astrophysics Division Mar 2022 NICER Pulsation Search and Spectroscopy of the Original Black Widow Pulsar, PSR B1957+20 Poster - Celebrating 20 Years of Chandra Science Symposium Dec 2019 Spectral Evolution of NGC 300 ULX-1 Invited Talk - Auckland Astronomical Society Aug 2016 Modelling the spectra of hot stars Talk - Royal Astronomical Society of New Zealand Conference Apr 2016 Modelling the spectra of hot stars TECHNICAL SKILLS Python, HTML/CSS, IDL, LATEX Programming OpenMP, MPI, Slurm High Performance Computing

HONORS & AWARDS

Bruno Rossi Prize [shared], High Energy Astrophysics Division of the AAS, as a Member of the IXPE Science Team 2024Bruno Rossi Prize [shared], High Energy Astrophysics Division of the AAS, as a Member of the NICER Science Team 2022 School of Science Service Fellowship (Massachusetts Institute of Technology) 2022 Graduate Service Award, Physics Department (Massachusetts Institute of Technology) 2021 Department of Physics Scholarship, 2017 (The University of Auckland) 2016 University of Auckland Postgraduate Honours/PG Diploma Scholarships 2016 Joyce Mary Clark Scholarship (The University of Auckland) 2016 First in Course Award (x6) (The University of Auckland) 2014 - 2017 Scholarship (New Zealand Qualifications Authority) 2014 The Trusts Charitable Foundation Scholarship (The Trusts Charitable Foundation) 2013 Dux Litterarum (Lynfield College) 2013

RESEARCH SUPERVISION

Sep 2023 - present Swati Ravi

MIT first-year graduate student (co-supervised with Herman Marshall)

Claire McLellan-Cassivi Jun 2023 - Dec 2023

MIT Undergraduate Research Student (co-supervised with Herman Marshall)

TEACHING EXPERIENCE

TA = Teaching Assistant

TA for (Graduate) Astrophysics I

Spring 2021, Spring 2022

Department of Physics, Massachusetts Institute of Technology

TA for "Introduction to Astronomy" and "Modern Astrophysics"

Spring 2020

Department of Physics, Massachusetts Institute of Technology

Marker (5 applied mathematics courses across all undergraduate levels) 2015 - 2017

Department of Mathematics, The University of Auckland

TA (Physics) for Planets, Stars and Galaxies

2015 - 2017

Department of Physics, The University of Auckland

TA for Advancing Physics I

2015

Department of Physics, The University of Auckland

LEADERSHIP & SERVICE

Committee Member

2024 - 2025

AAS Working Group for International Students and Researchers in Astronomy. Working group established to support members of the American Astronomical Society who are international scholars, and US citizens who plan to study/conduct research overseas.

Vice-Chair 2023 - 2024

Graduate Research and Development (GRAD) Coalition. Assisting the co-Chairs and members of the GRAD Caucus in the House of Representatives to present issues and concerns by graduate students and provide a platform to discuss possible legislative solutions. Successfully organized an in-person Congressional briefing in October 2023 on the topic of graduate advising/mentorship.

Graduate Student Member

2020 - 2022

Graduate Admissions Committee, Department of Physics, MIT. Worked with the Graduate Admissions Chair to review prospective physics PhD applicants.

Co-Organizer 2020 - 2022

Physics Graduate Application Assistance Program, Department of Physics, MIT. Co-led the establishment of mentoring-based physics PhD application assistance programs as well as virtual webinars. Successfully co-developed a proposal for funding graduate student mentors.

MIT Graduate Student Council External Affairs Board

2019 - 2023

Vice-Chair (2022-2023), Development (2020-2022), Public Outreach (2019-2020). Led the groundwork for the annual MIT Research Slam (2020); led the writing and publishing of the monthly advocacy newsletter (2021-2023); led multiple in-person trips with 8 to 10-student teams to Washington D.C. to meet with Congressional offices to advocate for graduate student concerns. I have overseen the scheduling for over 100 Congressional offices and committees over two trips.

Committee Member (Graduate Student)

2019 - present

MIT Open Space Programming Advisory Committee. Advising the Open Space Programming team on activities and programming for the Kendall Square Open Space by providing graduate student input and acting as a liaison.

MITvote Graduate Liaison

2018 - present

MITvote. Developing and sending informational emails on voting in local, state, and federal elections during election seasons.

Volunteer Observer 2018 - present

MIT Sidewalk Astrogazers. Have participated in over a dozen pop-up public astrogazing events so far and trained other students in operating the telescopes.

Executive Member 2017

Science Students' Association. Introduced the annual Science Trivia, and worked with other executive members to obtain funding from the various departments for this new association.

President 2015 - 2017

The Physics Association of The University of Auckland (PAUA). Introduced the annual Physics Careers Panel Discussion, organized monthly social gatherings ("Fluid Dynamics"), introductory Python workshops, and research seminars for undergraduate students.

OUTREACH AND PANELS

Physics Graduate Application/Admissions Information Session

Jul 2023

Speaker for a virtual presentation and Q & A session (> 45 attendees) for undergraduates of IISER Bhopal

Physics Graduate Application/Admissions Information Session

Dec 2022

Speaker for an in-person presentation and Q&A session (> 15 attendees) for undergraduates of the Nanyang Technological University in Singapore

Physics Graduate Applications Panel for Cenca Bridge

Apr 2022

Panelist for a live virtual webinar (> 5 attendees) to talk about the graduate admissions process. This panel was particularly for the Central American-Caribbean Bridge in Astrophysics students

PhysGAAP Webinar for Prospective Applicants

Dec 2021

Panelist for a live virtual webinar (>90 attendees) to talk about the graduate admissions process

International Graduate School Panel

Nov 2021

Panelist for a live virtual webinar (>10 attendees) to talk about international opportunities for graduate school to current undergraduate students in New Zealand

PGSC Career Panel Nov 2021

In-person panelist on a career panel (> 20 attendees); spoke about physics graduate admissions

Site 4 Art Kits & Stargazing Program

Nov 2021

In-person presentation to two dozen graduate students and their family from all backgrounds about neutron stars

Discord Panel for Physics/Astro Graduate School Applicants

Oct 2021

Panelist for a live virtual panel (> 20 attendees); spoke about physics graduate admissions

PhysGAAP Webinar for Prospective Applicants

Sep 2021

Panelist for a live virtual webinar (>140 attendees) to talk about the graduate admissions process

Physics Information Session for MSRP Students

Jul 2021

Panelist for a live virtual panel (>20 attendees) to talk about the graduate school

Graduate Admissions Panel for MIT SPS

May 2021

Panelist for a live virtual panel (>20 attendees) to talk about the graduate admissions

Graduate School Panel for UPRM

Sep 2020

Panelist for a live virtual panel (>20 attendees) to talk about the graduate admissions