# Wen-fai Fong

### Northwestern University

Physics & Astronomy Center for Interdisciplinary Exploration and Research in Astrophysics (CIERA) 1800 Sherman Avenue, Evanston, IL 60201

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## Scientific Interests

I use observations across the electromagnetic spectrum to study the connections between gamma-ray bursts, fast radio bursts, compact objects, gravitational waves, and other cosmic explosions.

### EDUCATION

Harvard University	Cambridge, MA
Ph.D., Astronomy & Astrophysics	2014
<ul> <li>Thesis: "Unveiling the Progenitors of Short-duration Gamma-ray Bursts" Advisor: Edo Berger</li> </ul>	
A.M., Astronomy & Astrophysics	2010
Massachusetts Institute of Technology S.B., Physics	Cambridge, MA 2008
<ul> <li>Thesis: "Extrasolar Planet Transit Photometry at Wallace Astrophysical Observatory Advisor: James L. Elliot</li> </ul>	1"
S.B., Biology	2008
Pre-Doctoral Awards & Honors	
• Edward L. Fireman Fellowship, Harvard Department of Astronomy	2014
Awards & Honors	
Packard Fellowship for Science and Engineering	2021
• NSF Faculty Early Career Development Program (CAREER) Award	2021
NASA Agency Honor Award for Group Achievement	2020
National Academy of Sciences Kavli Fellow	2018

NASA Hubble Postdoctoral Fellowship
APS Cecilia Payne-Gaposchkin Doctoral Dissertation Award in Astrophysics

- Research Corporation for Science Advancement Scialog Fellow
- NASA Einstein Postdoctoral Fellowship

2017 - 2018

2014 - 2017

2016

2016

### **APPOINTMENTS**

Assistant Professor of Physics & Astronomy, Northwestern University	2018–Present
Hubble Postdoctoral Fellow, Department of Physics & Astronomy, Northwestern University	2017 - 2018
Einstein Postdoctoral Fellow, Steward Observatory, University of Arizona	2014 - 2017
Graduate Research Fellow, Center for Astrophysics, Harvard University	2008 - 2014

## PRINCIPAL INVESTIGATOR GRANTS

**Research Funding:** Sponsors include the David & Lucile Packard Foundation, National Science Foundation, NASA, Smithsonian Astrophysical Observatory, and the Space Telescope Science Institute.

Career total:  $\mathbf{28}$  grants,  $\mathbf{\$3,596,900}$ 

**Diversity, Equity & Inclusion Funding:** Sponsors include American Physical Society, Illinois Space Grant Consortium, Research Corporation for Science Advancement, and various Northwestern offices.

Career total: 8 mini-grants, \$36,817

#### List of Proposals:

#### David & Lucile Packard Foundation

• Packard Fellowship for Science and Engineering			
"Unveiling the Origins of the Universe's Fastest Explosions" 202	21 - 2026		
National Science Foundation			
• Faculty Early Career Development Program (CAREER) \$7	77,186		
"Navigating the Environments of the Universe's Fastest Transients" 202	21 - 2026		
• Astronomy & Astrophysics Grant, #AST-1909358 \$3	800,024		
"Searches After Gravitational Waves Using Arizona's Observatories (SAGUARO)" 201	19-2022		
Astronomy & Astrophysics Grant, #AST-1814782     \$4	49,069		
"Unfolding the Dynamic and Colorful Lives of Compact Object Mergers" 201	18-2021		
National Science Foundation & National Radio Astronomy Observatory			
• NRAO Student Observing Support Grant, #VLA/20B-057	328,877		
"Elucidating the Explosion and Jet Properties of Cosmological Short GRBs with the VLA" 202	20 - 2022		
• NRAO Student Observing Support Grant, #VLA/19A-124	330,792		
"Exploring Extreme Explosions from the Cosmic Dawn" 201	19-2021		
NASA & Smithsonian Astrophysical Observatory			
Chandra X-ray Observatory Director's Discretionary (Science PI: A. Rouco Escorial)	$325,\!420$		
"Tracking the X-ray Emission of the Remarkable SGRB 211106A" 202	22 - 2023		
Chandra X-ray Observatory Director's Discretionary (Science PI: G. Schroeder)	322,970		
"The wide angle outflow of SGRB 210726A" 202	22 - 2023		
Chandra X-ray Observatory	356,244		

"The Next Breakthroughs Community Program: Chandra-VLA Observations of Compact-Object 2022–2024 Mergers"

Chandra X-ray Observatory	\$58,780
"The Late-time X-ray Behavior of Short Gamma-ray Bursts: Implications for Energetics and Rates"	2022-2024
Chandra X-ray Observatory (Science PI: A. Rouco Escorial)	\$68,200
"Cooling emission from highly magnetized neutron-star crusts"	2022 - 2024
• Chandra X-ray Observatory (Science PI: T. Eftekhari)	\$52,920
"Toward an FRB Progenitor: Elucidating the FRB-AGN Connection with Chandra"	2022 - 2024
Chandra X-ray Observatory	\$62,229
"The Late-time X-ray Behavior of Short Gamma-ray Bursts: Implications for Energetics and Rates"	2021-2022
• Chandra X-ray Observatory, #GO0-21041X	\$43,610
"Revisiting the Mysterious X-ray Excess of SGRB 130603B"	2019-2021
• Chandra X-ray Observatory, #GO0-21042X	\$53,070
"The Late-time X-ray Behavior of Short GRBs: Implications for Energetics and Rates"	2019-2021
• Chandra X-ray Observatory (approved but never initiated program)	\$60,233
"The Next Breakthroughs: Chandra-VLA Observations of Neutron Star Mergers"	2019-2021
• Chandra X-ray Observatory, #G09-20058A	\$36,605
"Late-time monitoring of GW170817 Across the Electromagnetic Spectrum"	2019-2021
• Chandra X-ray Observatory, #DD7-18095X	\$26,500
"Continued X-Ray Monitoring of GW170817 with Chandra"	2018 - 2020
• Chandra X-ray Observatory, #DD8-19100X	\$34,000
"Continued X-Ray Monitoring of GW170817 with Chandra"	2018-2020
• Chandra X-ray Observatory, #GO7-18024X	\$48,179
"Tracking the Evolution of an X-ray Counterpart to a Gravitational Wave Event"	2018-2019
• Chandra X-ray Observatory, #G08-19025X	\$59,493
"The Late-time X-ray Behavior of Short GRBs: Implications for Energetics and Rates"	2018-2019
• Chandra X-ray Observatory (approved but never initiated program)	\$74,429
"Tracking the Evolution of an X-Ray Counterpart to a Gravitational Wave Event"	2017 - 2019
NASA & Space Telescope Science Institute	
• Hubble Space Telescope, #HST-AR-16136 (Science PI: C. Kilpatrick)	\$89,627
"Using the full power of the HST Archive to Address the Red Supergiant Problem"	2020-2023
• Hubble Space Telescope, #HST-GO-16303	\$15,483
"Fine-Tuned Search for Kilonova Emission in a Short Gamma-Ray Burst: Implications for the Progenitors, GW Sources, and r-Process Nucleosynthesis"	2020-2022
• Hubble Space Telescope, #HST-GO-15886	\$90,006
"1000 Days of GW170817: A Deep Multi-Band View of the First NS Merger with HST"	2021 - 2022
• Hubble Space Telescope, #HST-GO-15606	\$27,331
"Late-time monitoring of GW170817 Across the Electromagnetic Spectrum"	2019-2020
• Hubble Space Telescope, #HST-GO-14685	\$76,932

#### NASA (general)

• XMM-Newton Observatory	\$64,075
"XMM-Newton Observations of Jets in Short Gamma-ray Bursts"	2020 - 2022
• XMM-Newton Observatory, #80NSSC18K0189	\$57,296
"The Late-time X-ray Behavior of Short GRBs: Implications for Energetics and Rates"	2018 - 2021

#### Awards or Diversity, Equity & Inclusion Grants

•	American Physical Society, #CWC-031/PHY-1622510	\$13,250
	"Conference for Undergraduate Women in Physics (CUWiP)"	2018 - 2019
•	NASA/Illinois Space Grant Consortium, #NNX154AAI05H	\$6,067
	"Supporting a Conference for Undergraduate Women in Physics"	2018 - 2019
•	Research Corporation for Science Advancement Cottrell Scholars Collaborative	\$2,500
	"Supporting a Conference for Undergraduate Women in Physics"	2018 - 2019
•	Northwestern University (various offices)	\$15,000
	Mini-grants awarded in support of Northwestern's 2019 Conference for Undergraduate Women	2018 - 2019
	in Physics, from the Office of the Provost, Weinberg College of Arts & Sciences, The Graduate	
	School, Office for Research, and the Women's Center.	

### PRINCIPAL INVESTIGATOR TELESCOPE PROPOSALS

Career total: 63 telescope proposals won through internal, national and/or international competitions.

#### List of Proposals:

† indicates that the proposal PI is student or post-doctoral associate/collaborator of the Fong group.

• Very Large Array 2022A, 4.5 hr	2022
"Constraining the Environment of a Remarkable Repeating Fast Radio Burst"	
• † Very Large Array 2022A, 4.5 hr (PI: T. Eftekhari)	2022
"The First High Frequency Search for Persistent FRB Counterparts"	
• † Hubble Space Telescope Cycle 29 Mid-Cycle, GO-16877 (PI: A. Mannings)	2022
``Determining the host sub-structure and local environment characteristics of highly-active FRB 202012	124A "
• Gemini-South Observatory 2022A, 7.8 hr, GS-2022A-Q-112	2022
Gemini-North Observatory 2022A, 7.9 hr, GN-2022A-Q-110	
"Probing the Properties of Neutron Star Mergers: Rapid Observations of Short Gamma-ray Bursts"	
<ul> <li>† Chandra X-ray Observatory Cycle 23 Director's Time Cycle 23, 40 ksec, Proposal 22408825 G. Schroeder)</li> </ul>	5 (PI: 2022
"The wide angle outflow of SGRB 210726A"	
• † Chandra X-ray Observatory Cycle 23 Director's Time Cycle 23, 40 ksec, Proposal 22408828	3 (PI:
A. Rouco Escorial)	2022
"Tracking the X-ray Emission of the Remarkable SGRB 211106A"	
• Chandra X-ray Observatory Cycle 23 Cycle 23, 340 ksec, Proposal 23510318	2022
"The Next Breakthroughs Community Program: Chandra-VLA Observations of Compact-Object Merg	ers"

<ul> <li>† Chandra X-ray Observatory Cycle 23, 55 ksec, Proposal 23700039 (PI: T. Eftekharl) "Toward an FRB Progenitor: Elucidating the FRB-AGN Connection with Chandra"</li> <li>† Chandra X-ray Observatory Cycle 23, 120 ksec, Proposal 23400537 (PI: A. Rouco Est "Cooling emission from highly magnetized neutron-star crusts"</li> <li>Gemini-South Observatory 2021B, 8.0 hr, GS-2021B-Q-101 Gemini-North Observatory 2021B, 8.0 hr, GS-2021B-Q-109 "Probing the Properties of Neutron Star Mergers: Rapid Observations of Short Gamma-ray Southern Astrophysical Research (SOAR) Telescope 2021B, 15 hr, NOIRLab2021B "Navigating the Environments of Fast Radio Burst Host Galaxies with SOAR"</li> <li>Very Large Array 2022A+B, 40 hr "The Next Breakthroughs Community Program: Chandra-VLA Observations of Compact-Oi † Nuclear Spectroscopic Telescope Array (NuSTAR) Cycle 7, 20 ksec (PI: C. Kilpatt "A Search for the First X-ray Counterpart to an Extragalactic FRB"</li> <li>Very Large Array 2021B, 10 hr (PI: G. Schroeder) "Uncovering Evidence for the Birth of a Magnetar in SGRB 200522A"</li> <li>Chandra X-ray Observatory Cycle 22, 65 ksec, Proposal 22400461 "The Late-time X-ray Behavior of Short Gamma-ray Bursts: Implications for Energetics an Gemini-North Observatory 2021A, 7.6 hr, GS-2021A-Q-109 "Probing the Properties of Neutron Star Mergers: Rapid Observations of Short Gamma-ray † Hubble Space Telescope Cycle 28, Archival proposal, GO-16136 (PI: C. Kilpatrick) "Using the full power of the HST Archive to Address the Red Supergiant Problem"</li> <li>† Keck Observatory 2021A, 4 nights, 2021A-Q-119 "The fuel power of the HST Archive to Address the Red Supergiant Problem"</li> <li>† Kack Observatory 2021A, 4 nights, 2021A-Q-316 (PI: C. Kilpatrick) "Constraining Supernova Progenitor Systems with the LCO Global Telescope Network"</li> <li>† Southern Astrophysical Research (SOAR) Telescope 2021A, 4 hr, 2021A-N0132 (I C. Kilpatrick)</li> <li>* Gomstraining Supernova Progenitor Systems with the LCO Global Telescope Network"<th>andra X-ray Observatory Cycle 23, 65 ksec, Proposal 23400449 20</th><th>022</th></li></ul>	andra X-ray Observatory Cycle 23, 65 ksec, Proposal 23400449 20	022
<ul> <li>"Toward an FRB Progenitor: Elucidating the FRB-AGN Connection with Chandra"</li> <li>† Chandra X-ray Observatory Cycle 23, 120 ksec, Proposal 23400537 (PI: A. Rouco Esc "Cooling emission from highly magnetized neutron-star crusts"</li> <li>Gemini-South Observatory 2021B, 8.0 hr, GS-2021B-Q-111 Gemini-North Observatory 2021B, 6.2 hr, GN-2021B-Q-109</li> <li>"Probing the Properties of Neutron Star Mergers: Rapid Observations of Short Gamma-ray</li> <li>Southern Astrophysical Research (SOAR) Telescope 2021B, 15 hr, NOIRLab2021B. "Navigating the Environments of Fast Radio Burst Host Galaxies with SOAR"</li> <li>Very Large Array 2022A+B, 40 hr</li> <li>"The Next Breakthroughs Community Program: Chandra-VLA Observations of Compact-Oi</li> <li>† Nuclear Spectroscopic Telescope Array (NuSTAR) Cycle 7, 20 ksec (PI: C. Kilpat</li> <li>"A Search for the First X-ray Counterpart to an Extragalactic FRB"</li> <li>Very Large Array 2021B, 10 hr (PI: G. Schroeder)</li> <li>"Uncovering Evidence for the Birth of a Magnetar in SGRB 200522A"</li> <li>Chandra X-ray Observatory Cycle 22, 65 ksec, Proposal 22400461</li> <li>"The Late-time X-ray Behavior of Short Gamma-ray Bursts: Implications for Energetics an</li> <li>Gemini-South Observatory 2021A, 7.6 hr, GS-2021A-Q-109</li> <li>"Probing the Properties of Neutron Star Mergers: Rapid Observations of Short Gamma-ray</li> <li>† Hubble Space Telescope Cycle 28, Archival proposal, GO-16136 (PI: C. Kilpatrick)</li> <li>"Using the full power of the HST Archive to Address the Red Supergiant Problem"</li> <li>† Keck Observatory 2021A, 4 nights, 2021A. OI6 (PI: C. Kilpatrick)</li> <li>"Constraining Supernova Progenitor Systems with the LCO Global Telescope Network"</li> <li>† Southern Astrophysical Research (SOAR) Telescope 2021A, 4 hr, 2021A-N0132 (I C. Kilpatrick)</li> <li>"Mapping the Explosion Site of a Short Gamma-ray Burst with SOAR"</li> <li>Southern Astrophysical Research (SOAR) Telescope 2021A, 4 hr, 2021A-N0132 (I C. Kilpatrick)</li> <li>"Mapping the Explosion Site of a Sh</li></ul>	e Late-time X-ray Behavior of Short Gamma-ray Bursts: Implications for Energetics and Rates"	
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	emini-South Observatory 2020B, 3 hr, GS-2020B-Q-229 (PI: K. Paterson) 20	020

	"Uncovering a high redshift population of short gamma-ray bursts"	
•	† Gemini-South, 3 hr, GS-2020B-Q-121 (PI: C. Kilpatrick)	2020
	"Identifying the Progenitors of Astrophysical Transients"	
•	† Las Cumbres Observatory, 21 hr, NOAO2020B-009 (PI: C. Kilpatrick) "Constraining Supernova Progenitor Systems with the LCO Global Telescope Network"	2020
•	† Neil Gehrels Swift Observatory (joint with XMM-Newton), 65 ksec (PI: A. Rouco Escorial) "The quest for Be/X-ray transients: how do highly magnetized neutron stars cool?"	2020
•	† Southern Astrophysical Research (SOAR) Telescope, 2020A, 4 hr, 2020B-N0198 (PI: C. Kilpatrick)	2020
	"Mapping the Explosion Site of a Short Gamma-ray Burst with SOAR"	
•	<b>Very Large Array</b> , 17.5 hr, 20B-057 "Elucidating the Explosion Properties of Cosmological Short GRBs with the VLA"	2020
•	<b>† XMM-Newton Observatory</b> AO-20, 70 ksec, Proposal 088335 (PI: A. Rouco Escorial) "The quest for Be/X-ray transients: how do highly magnetized neutron stars cool?"	2020
•	Atacama Large Millimeter Array Cycle 7, 6.3 hr, 2019.1.00863.T	2019
	"Unveiling the First Short Gamma-ray Burst Millimeter Afterglows with ALMA"	
•	<ul> <li>Chandra X-ray Observatory Cycle 20 Large Program, 620 ksec, Proposal 20500312 (co-PI's: D. Haggard, R. Margutti)</li> <li>"The Next Breakthroughs: Chandra-VLA Observations of Neutron Star Mergers"</li> </ul>	2019
•	<b>Chandra X-ray Observatory</b> Cycle 19, 200 ksec, Proposal 20500299 (co-PI: R. Margutti) <i>"Late-time monitoring of GW170817 across the electromagnetic spectrum"</i>	2019
•	<b>Gemini-South Observatory</b> 2019A, 5.1 hr, GS-2019A-Q-124 "Probing the Properties of Neutron Star Mergers: Rapid Observations of Short Gamma-ray Bursts"	2019
•	† <b>Gemini-South Observatory</b> Fast-turnaround, 1.5 hr, GS-2019A-FT-107 (PI: K. Paterson) "Determining the redshift of GRB181123B"	2019
•	Hubble Space Telescope Cycle 24, 13 orbits, GO-15886 "1000 Days of GW170817: A Deep Multi-Band View of the First Neutron Star Merger with HST"	2019
•	Hubble Space Telescope (joint with Chandra), 6 orbits, GO-15606 (co-PI: R. Margutti) "Late-time monitoring of GW170817 across the electromagnetic spectrum"	2019
•	<b>† Keck Observatory</b> 2019A, 3.5 nights, 2019A_O329 (PI: K. Paterson) "The NU-Keck Environments of Extreme Transients Program"	2019
•	† <b>Keck Observatory</b> 2019B, 0.5 nights, 2019B_O295 (PI: K. Paterson) "The Infant Stages of Explosive Transients with Keck ToO Observations"	2019
•	<sup>†</sup> <b>Nuclear Spectroscopic Telescope Array (NuSTAR)</b> DDT, 50 ksec (PI: A. Rouco Escorial) "Observation of GX 304-1 in its cold-disc accretion stage"	2019
•	<b>Very Large Array</b> , 17.5 hr, 19B-217 "Elucidating the Explosion Properties of Cosmological Short GRBs with the VLA"	2019
•	<b>Very Large Array</b> (joint with Chandra), 10 hr, SK0299 (co-PI: R. Margutti) "Late-time monitoring of GW170817 across the electromagnetic spectrum"	2019
•	<ul> <li>† Very Large Array 2019A, 46 hr, 19B-258 (PI: K. Alexander)</li> <li>"Pinpointing the Radio Emission from NS Mergers in LIGO/Virgo's 3rd Observing Run"</li> </ul>	2019

•	XMM-Newton Observatory AO-19, 89 ksec, Proposal 086286 "XMM-Newton Observations of Jets in Short Gamma-ray Bursts"	2019
•	Atacama Large Millimeter Array Cycle 6, 6.3 hr, 2018.1.01204.T "Unveiling the First Short Gamma-ray Burst Millimeter Afterglows with ALMA"	2018
•	<b>Chandra X-ray Observatory</b> Cycle 19, 75 ksec, Proposal 19400228 "Tracking the Evolution of an X-ray Counterpart to a Gravitational Wave Event"	2018
•	<b>Chandra X-ray Observatory</b> Cycle 19, 65 ksec, Proposal 19400201 "The Late-time X-ray Behavior of Short Gamma-ray Bursts: Implications for Energetics and Rates"	2018
•	<ul> <li>Gemini-South Observatory 2018A, 7.9 hr, GS-2018A-Q-127</li> <li>Gemini-North Observatory 2018A, 7.9 hr, GN-2018A-Q-121</li> <li>"Probing the Properties of Neutron Star Mergers: Rapid Observations of Short Gamma-ray Bursts"</li> </ul>	2018
•	<b>Gemini-South Observatory</b> Fast-turnaround, 1.8 hr, GS-2018A-FT-110 "Confirming a Distant Short Gamma-ray Burst with Gemini Near-Infrared Spectroscopy"	2018
•	<ul> <li>Gemini-South Observatory 2018B, 5.0 hr, GS-2018B-Q-112</li> <li>Gemini-North Observatory 2018B, 5.0 hr, GN-2018B-Q-117</li> <li>"Probing the Properties of Neutron Star Mergers: Rapid Observations of Short Gamma-ray Bursts"</li> </ul>	2018
•	<b>Gemini-South Observatory</b> Fast-turnaround, 1 hr, GS-2018B-FT-205 "Determining the Origin of Optical Emission from the SGRB 180727A"	2018
•	Keck Observatory 2018B, 0.5 nights, 2018B_NW249 "The Infant Stages of Explosive Transients with Keck ToO Observations"	2018
•	Very Large Array, 18 hr, 18B-168 "The Remnants of Neutron Star Mergers: A Late-time Survey of Nearby Short GRBs"	2018
•	<b>Chandra X-ray Observatory</b> Cycle 18, 75 ksec, Proposal 18400052 "Tracking the Evolution of an X-ray Counterpart to a Gravitational Wave Event"	2017
•	<b>Gemini-South Observatory</b> 2017B, 4.9 hr, GS-2017B-Q-12 "Probing the Properties of Compact Object Mergers: Rapid Observations of Short Gamma-ray Bursts	2017 ,"
•	<b>Very Large Array</b> , 19 hr, 17A-218 "Uncovering the Explosion Properties of Short Gamma-ray Bursts with the VLA"	2017
•	† Very Large Array, 17 hr, 17B-201 (PI: C. Kilpatrick) "Late-Time Radio Emission from Type IIn/II-L Supernovae with the VLA"	2017
•	Hubble Space Telescope Cycle 24, 12 orbits, GO-14685 "Underlying Hosts or Highly-Kicked? Determining the Nature of Host-less Short Gamma-ray Bursts HST"	2016 with
•	XMM-Newton Observatory AO-15, 89 ksec, Proposal 078225012015"The Late-time X-ray Behavior of Short Gamma-ray Bursts: Implications for Energetics and Rates"	-2018

## PRESS RELEASES

**4** press releases resulting from work led by PI or research group members as a faculty member at Northwestern. The combined releases have hit every continent except Antarctica.

1.	"Hubble Tracks Down Fast Radio Bursts to Galaxies' Spiral Arms"	5/2021
	Based on Mannings, A. G.; Fong, W.; Simha, S. et al. 2021. [Link to paper]	

	- Led by NASA/Space Telescope Science Institute, jointly released by Northwestern News and University of California, Santa Cruz	
	- 120 media mentions including CNN, CBS News	
	<ul> <li>"NASA's Hubble Sees Unexplained Brightness from Colossal Explosion"</li> <li>Based on Fong, W.; Laskar, T.; Rastinejad, J. et al. 2021. [Link to paper]</li> <li>Led by NASA/Space Telescope Science Institute, jointly released by Keck Observatory and Northwestern News</li> <li>Result featured on Northwestern University homepage and NSF Research News Highlight</li> </ul>	11/2020
3.	<ul> <li>- 121 media mentions including Forbes, CNET, Smithsonian Magazine, LiveScience</li> <li>"Gemini Observatory's Quick Reflexes Capture Fleeting Flash"</li> <li>Based on Paterson, K.; Fong, W.; Nugent, A. E. et al. 2020. [Link to paper]</li> </ul>	7/2020
	<ul> <li>Led by NSF's Optical and Infrared Astronomy Lab, jointly released by Keck Observatory and Northwestern News</li> <li>Subject of NSF's OIRLab Mirror Magazine highlighting best Gemini results of 2020</li> </ul>	

- 93 media mentions including CNN, CNET, United Press International (UPI), MSN, and IFL Science
- "Afterglow sheds light on the nature, origin of neutron star collisions" Based on Fong, W.; Blanchard, P. K.; Alexander, K. D. et al. 2019. [Link to paper]
  - Led by Northwestern News
  - ${\bf 34}$  media mentions

## INVITED PRESENTATIONS

Invited research review talks at conferences, departmental seminars and colloquia.  $% \left( {{{\bf{n}}_{\rm{s}}}} \right)$ 

Career total:  $\mathbf{76}$  invited presentations

List of Presentations:

• Colloquium at University of California Santa Cruz, Santa Cruz, CA	Fall 2022
• Colloquium at University of California San Diego, San Diego, CA	2/2022
• Colloquium at University of California Los Angeles, Los Angeles, CA	2/2022
• Colloquium at Kavli Institute for the Physics and Mathematics of the Universe (IPMU), Tokyo, (virtual)	$\begin{array}{c} \text{Japan} \\ 1/2022 \end{array}$
• Review talk at NASA Swift Observatory Senior Review Strategy Session (virtual)	11/2021
• Review talk at Dawn VI meeting on Next Generation Gravitational Wave Observatories (virtual)	) 10/2021
• Review talk at 238th American Astronomical Society LAD Meeting (virtual)	6/2021
• Seminar at Center for Astrophysics   Harvard & Smithsonian (virtual)	2/2021
• Review talk at 237th American Astronomical Society Meeting (virtual)	1/2021
• Review talk at APS Prairie Section Meeting (virtual)	11/2020
• Colloquium at University of Illinois Urbana-Champaign, Champaign, IL (virtual)	10/2020
• Colloquium at University of Washington, Seattle, WA (virtual)	10/2020
• Review talk at European Astronomy Society Symposium, Leiden, Netherlands (virtual)	7/2020
• Review talk at American Physical Society April Meeting (virtual)	4/2020
• Review talk at Astrophysics of Fast Radio Bursts, Flatiron Institute, NYC	2/2020
• Colloquium at Michigan State University, East Lansing, MI	1/2020
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9/2019

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• Review talk at ESO's Extragalactic Explosive Universe, Garching, Germany	9/2019
• Moderator at Hot-wiring the Transient Universe, Evanston, IL	8/2019
• Review talk at the MMT 40th Anniversary Symposium, Tucson, AZ	5/2019
• Seminar at the Institute for Advanced Study, Princeton, NJ	5/2019
• Colloquium at University of Florida, Gainesville, FL	4/2019
• Colloquium at Dunlap Institute for Astronomy Astrophysics, Toronto, ON	3/2019
• Review talk at GW Populations, Aspen, CO	2/2019
• Colloquium at University of Rochester, Rochester, NY	2/2019
• Colloquium at Carnegie Observatories, Pasadena, CA	2/2019
- Review talk at 233rd American Astronomical Society Meeting, Seattle, WA	1/2019
• Review talk at Chinese-American Kavli Frontiers of Science, Nanjing, China	10/2018
• Seminar at Northwestern, Illinois Space Grant Program, Evanston, IL	7/2018
• Review talk at 10th Harvard-Smithsonian Sackler Conference, Cambridge, MA	5/2018
• Colloquium at University of Oklahoma, Norman, OK	5/2018
• Invited talk at Neil Gehrels Memorial Symposium, Washington, DC	5/2018
• Review talk at European Week of Astronomy and Space Science, Liverpool, UK	4/2018
• Colloquium at University of Connecticut, Storrs, CT	3/2018
• Invited talk at Hubble Fellows Symposium, Baltimore, MD	3/2018
• Moderator/session lead at 3rd PAX Workshop, State College, PA	2/2018
• Colloquium at CU Boulder, Boulder, CO	1/2018
• Panelist at AAS Multi-messenger/LIGO Special Session, National Harbor, MD	1/2018
• Review talks at Deciphering the Violent Universe, Playa del Carmen, Mexico	12/2017
• Review talk at GW170817: The First DNS Merger, KITP, Santa Barbara, CA	12/2017
• Invited talk at NASA Marshall Space Flight Center, Huntsville, AL	11/2017
• Colloquium at University of Pittsburgh, Pittsburgh, PA	11/2017
• Colloquium at Northwestern University, Evanston, IL	10/2017
• Moderator at eXtreme Matter meets eXtreme Gravity, Bozeman, MT	8/2017
• Review talk at Fifty-One Erg 2017, Corvallis, OR	6/2017
• Colloquium at Columbia University, New York City, NY	5/2017
• Colloquium at Penn State University, State College, PA	4/2017
• Colloquium at NRAO/University of Virginia, Charlottesville, VA	3/2017
• Colloquium at Steward Observatory, University of Arizona, Tucson, AZ	2/2017
• Colloquium at IfA, University of Hawaii, Honolulu, HI	2/2017
• Colloquium at University of Amsterdam, Netherlands	1/2017
• Special Seminar, Northwestern University, Evanston, IL	11/2016
<ul> <li>Review talk at JSI workshop, Annapolis, MD</li> </ul>	11/2016

• Colloquium at Physics Dept, University of Arizona, Tucson, AZ	9/2016
• Talk at "Fellows at the Frontiers" conference, Evanston, IL	8/2016
• Astrophysics Seminar at CIERA, Northwestern University, Evanston, IL	5/2016
• Review talk at Sackler Conference, "The Transient Sky", Cambridge, MA	5/2016
• TAPIR Seminar group, Caltech, Pasadena, CA	5/2016
• APS Dissertation Prize talk, Salt Lake City, UT	4/2016
• Colloquium at Steward Observatory, University of Arizona, Tucson, AZ	2/2016
• Seminar at NSSTC, Huntsville, AL	2/2016
• Seminar at University of Rochester, Rochester, NY	10/2015
• Seminar at Ohio University, Athens, OH	4/2015
• Seminar at Arizona State University, Tempe, AZ	3/2015
• Colloquium at University of Illinois, Urbana-Champaign, IL	11/2014
• Colloquium at University of Nevada, Las Vegas, NV	11/2014
• Review talk at 2nd Annual GMT Community Science Meeting, DC	10/2014
• Seminar at Joint Institute for Nuclear Astrophysics, Michigan State University	9/2014
• Review talk at "Multi-Messenger Transient Astrophysics", KIAA, Beijing, China	5/2013
• General Colloquium at Bishop's University, Quebec	10/2012
• Review talk at "Chirps, Mergers and Explosions", KITP Santa Barbara, CA	8/2012
• Guest lecture for "Fundamentals of Contemporary Astronomy", Harvard	7/2012
• Review talk at "LIGO-Virgo" telecon, MIT	6/2012
• Review talk at "General Relativity Informal Tea-Time Series", MIT	5/2012
• Review talk at "Physics of Astronomical Transients", Aspen Center for Physics	1/2012
• Review talk at "LIGO-Virgo" telecon, MIT	6/2011
• Review talk at "Gravitational Research Astro Informal Lunch Series", MIT	5/2011

## LEADERSHIP & PROFESSIONAL SERVICE

•	Scientific Leadership and Membership Roles	
	Leadership and membership roles in the physics and astrophysics communities.	
	<ul> <li>Co-leader, Fast and Fortunate Fast Radio Burst Collaboration</li> <li>International collaboration to follow fast radio bursts and their host galaxies.</li> </ul>	2020-
	<ul> <li>Co-founder and co-PI, Searches After Gravitational Waves Using Arizona Observatories (SAGUARO) Collaboration</li> <li>Unique network of telescopes in pursuit of counterparts to gravitational wave events.</li> </ul>	2018-
	<ul> <li>Member, The Commensal Real-time ASKAP Fast Transients Survey The premier discovery experiment for localizing fast radio bursts.</li> </ul>	2020-
	<ul> <li>Member, NASA StarBurst Multimessenger Pioneer Mission concept selected in 1/2021 for the competitive NASA Astrophysics Pioneers program, membership on science team.</li> </ul>	2020-

<ul> <li>Member, NASA STAR-X Mission Concept NASA MIDEX Mission Concept team member.</li> </ul>	2019-
• External Service	
Invited positions for service external to Northwestern.	
– <b>Member</b> , Chandra Time-domain Science Working Group	2021 -
– Panelist, NSF Astronomy & Astrophysics Grant Review	2021 -
- Reviewer, Canadian Time Allocation Committee Proposal Reviewer	2021
– <b>Reviewer</b> , Israeli Science Foundation Grant Reviewer	2021
– Reviewer, NASA Review Panels, NASA and NSF Graduate or Postdoctoral Fellowships	2017 -
<ul> <li>Member of 6 Scientific Organizing Committees including Chandra Frontiers, Keck Science, 40th Anniversary of the VLA Meetings</li> </ul>	2018-
<ul> <li>Reviewer for Nature, Science, Astrophysical Journal Letters, Astrophysical Journal, Monthly Notices of the Royal Astronomical Society</li> </ul>	2015 -
- Author, NSF's Optical and Infrared Astronomy Lab Mirror Magazine feature Paterson & Fong: "Uncovering the Population of Short Gamma-ray Bursts at $z > 1.5$ Invited feature highlighting one of four most important NSF OIRLab results in 2020.	2021
<ul> <li>Member, NASA Gravitational Wave-Electromagnetic Wave Task Force</li> <li>6-person designated committee by NASA HQ, resulted in published report of NASA facility</li> <li>engagement over the next decade</li> </ul>	2019–2020
– <b>External Examiner</b> for University of Sydney Thesis Committee (1 student)	2020
- Author, Astro-2020 White Paper, "X-ray follow-up of extragalactic transients"	2019
– <b>Chair</b> , National Radio Astronomy Observatory Telescope Allocation Committee Panel	2016 - 2019
- Co-chair, American Physical Society Conference for Undergraduate Women in Physics	2018 - 2019
– Member, Chandra X-ray Observatory Telescope Allocation Committee Panel	2018
- Reviewer, Swiss National Science Foundation	2017 - 2019
– <b>Member</b> , Hubble Space Telescope Telescope Allocation Review Panel	2017
Teaching & Course Design	
• ASTRON 325/425 – Stellar Astrophysics Core course for upper-level undergraduates and 1st, 2nd and 3rd year PhD students	
-25 students, Course rating: 5.27/6, Instructor rating: 5.60/6	Fall 2018
-19 students, Course rating: 5.43/6, Instructor rating: 5.71/6	Fall 2019
- 21 students, Course rating: 5.80/6, Instructor rating: 5.93/6 (taught virtually)	Fall 2020
• ASTRON 441-0 – Advanced Topics: Time-Domain Astronomy New discussion-based course for 1st year PhD students	
-9 students, Course rating: 5.75/6, Instructor rating: $6.00/6$	Spring 2019
• ASTRON 110-6 – First-Year Seminar: The Energetic and Explosive Universe New discussion-based course for 1st and 2nd year undergraduates	
	Winter 2021

• ASTRON 110-6-1 – First-Year Seminar: The Diverse Origins of Modern Astrophysics New discussion-based course for 1st and 2nd year undergraduates

- 17 students, Course ongoing Fall 2021

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## Advising & Mentoring

Post-doctoral Associates	
2 post-doctoral associates as part of core research group.	
<ul> <li>Alicia Rouco Escorial (X-ray observer) gamma-ray bursts, Be/X-ray transients, fast radio bursts</li> </ul>	2019-
<ul> <li>Kerry Paterson (optical and near-IR observer, image processing) gravitational waves counterparts with SAGUARO, short gamma-ray bursts, cataclysmic</li> </ul>	2018– variables
Post-doctoral Collaborators	
2 post-doctoral fellows for which Fong plays a mentorship role.	
<ul> <li>Tarraneh Eftekhari (radio observer, CIERA Fellow)</li> <li>fast radio bursts, supernovae, tidal disruption events, CMB surveys</li> </ul>	2021-
<ul> <li>Charles Kilpatrick (optical observer, CIERA Fellow) gravitational wave counterparts, supernova progenitors, fast radio bursts</li> </ul>	2020-
Graduate Students - Advisory Role	
5 PhD students as part of core research group.	
<ul> <li>Anya Nugent (4th year, Claire Booth Luce Fellow) modeling of short gamma-ray burst host galaxies to place constraints on the evolution of binaries and mergers</li> </ul>	2018– f neutron star
<ul> <li>Genevieve Schroeder (4th year) exploring how radio observations of long and short gamma-ray bursts can be used as pro- formation and neutron star properties</li> </ul>	2018– obes of star
- Jillian Rastinejad (3rd year) quantifying the outflow properties of neutron star mergers with optical and near-infrared	2019– l observations
<ul> <li>Alexa Gordon (2nd year) modeling the host galaxy environments of well-localized fast radio bursts to determine th progenitors</li> </ul>	2020– neir
<ul> <li>Yuxin (Vic) Dong (1st year, NSF Graduate Research Fellow)</li> <li>multi-wavelength counterpart searches to fast radio bursts</li> </ul>	2021-
Graduate Students - Co-advisory Role	
3 PhD students co-advised on projects which resulted in publications toward their PhD theses.	
<ul> <li>Alexandra Mannings (3rd year at UC Santa Cruz); Advisor: J. X. Prochaska exploring the local environments of fast radio bursts with high-resolution Hubble Space Telescope imaging</li> </ul>	2020-
<ul> <li>Michael Zevin (now a Hubble Fellow at U. Chicago); Advisor: V. Kalogera forward modeling of neutron star binaries to determine the progenitor properties of highly-offset short gamma-ray bursts</li> </ul>	2018-2020
<ul> <li>Shi (Claire) Ye (PhD student at Northwestern); Advisor: F. Rasio determining the rates of neutron star mergers in globular clusters using state-of-the-art simulations</li> </ul>	2018-2020
Undergraduate Students	
12 undergraduate students advised within the core research group.	
<ul> <li>Olivia Guerra (now a sophomore at Northwestern)</li> <li>building a pipeline for EM counterparts to gravitational wave events</li> </ul>	2021-

<ul> <li>Saarah Hall (REU student, now a senior at UPenn)</li> <li>building a pipeline for EM counterparts to gravitational wave events</li> </ul>	Summer 2021
<ul> <li>Jason Vazquez (REU student, now a senior at UIUC)</li> <li>HST data analysis of supernova progenitors</li> </ul>	Summer 2021
<ul> <li>David Velasco (now a senior at DePaul)</li> <li>building a pipeline for rapid optical and infrared data reduction</li> </ul>	2021
<ul> <li>Yuxin (Vic) Dong (Illinois Space Grant Fellow; now an NSF Graduate Fellow at modeling of short gamma-ray burst and fast radio burst host galaxies</li> </ul>	NU) 2020–2021
<ul> <li>Maura Lally (Senior thesis awardee; now a NSF Graduate Fellow at Cornell) modeling of dark gamma-ray burst host galaxies</li> </ul>	2018-
<ul> <li>Armaan Goyal (now a PhD student at Indiana University) analysis of gamma-ray burst host galaxy spectroscopy</li> </ul>	2019-2020
<ul> <li>Sarah Popp (CIERA REU; now a PhD student at Indiana University)</li> <li>X-ray observations of short gamma-ray bursts</li> </ul>	Summer 2020
<ul> <li>Owen Eskandari (LSST Fellow; now a senior at Dartmouth) training machine learning algorithms for gravitational wave event searches</li> </ul>	2018-2020
<ul> <li>Dylaan Cornish (Illinois Space Grant Fellow; now a data systems analyst)</li> <li>X-ray observations of short gamma-ray bursts</li> </ul>	2018-2020
<ul> <li>Carlo Esquivia (CIERA REU; now a financial analyst) modeling of gravitational wave counterpart afterglow light curves</li> </ul>	Summer 2018
<ul> <li>Susana Torres-Londono (now an NSF Graduate Fellow at Caltech) analysis of Hubble Space Telescope host galaxy observations</li> </ul>	Summer 2018
High School Students	
2 high school students as part of the CIERA "REACH" High School Program.	
<ul> <li>Joshua Ahn (now an undergraduate at University of Chicago) inspection and analysis of template images for gravitational wave survey SAGUARO</li> </ul>	2019
<ul> <li>Stevia Ndoe (now an undergraduate at New York University) identifying optical transients in gravitational wave survey SAGUARO data</li> </ul>	2019

## Department, College & University Service

Northwestern Departmental Service	
Service internal to the Department of Physics & Astronomy or CIERA.	
– Member, Physics & Astronomy Faculty Search Committee	2021 -
– Chair, CIERA Astrophysics Seminar Committee	2020 -
– Member, CIERA Undergraduate Recruitment Committee	2020 -
– Member, Astronomy Graduate Admissions Committee	2021 -
– Member, Astronomy Faculty Search Committee	2021
– Coordinator, CIERA Remote Observing Room	2019 -
– Member, PhD Candidacy or Thesis Committees (6 students)	2018 -
– Chair, CIERA Social Justice Training Task Force	2020
– Member, Astronomy Graduate Admissions Committee	2020
– Chair, CIERA Telescope Allocation Committee	2019 -

– Northwestern Representative, Keck Scientific Steering Council	2018 - 2020
– Member, Astronomy Graduate Admissions Committee	2019
– Member, CIERA Fellowship Postdoctoral Search Committee	2018

## Community Engagement

• Keck Observatory Virtual Astronomy Talk (virtual, 250-person attendance)	9/2020
• CIERA Research Experience for Undergraduates Seminar (virtual)	8/2020
• CIERA High School Summer Research Program Seminar, Evanston, IL	7/2019
• STEM Superstars Lecture for Project Scientist, Irvine, CA	6/2018
• Panelist at The Chicago Network panel on GW170817, Evanston, IL	5/2018
• Panelist at Peering into the Cosmic Maelstrom, Northwestern, Evanston, IL	11/2017
• Public talk at Astronomy on Tap, Evanston, IL	11/2017
• Public Lecture at Lake County Astronomical Society, Ingleside, IL	10/2017
• Public Evening Lecture, Steward Observatory, Tucson, AZ	4/2017
• Huachuca Astronomy Club Meeting, Cochise College, Sierra Vista, AZ	8/2016