

TARRANEH EFTEKHARI

NASA EINSTEIN FELLOW, CIERA, NORTHWESTERN UNIVERSITY

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RESEARCH INTERESTS

I leverage radio, millimeter, and X-ray observations of energetic transients, including **fast radio bursts**, **supernovae**, and **tidal disruption events**, to answer key questions about their **progenitors**, **outflows**, and **environments**.

EDUCATION

HARVARD UNIVERSITY Ph.D. , Astronomy and Astrophysics Thesis: Unveiling the Transient Radio and Millimeter Sky Advisor: Edo Berger, Ph.D.	2021
HARVARD UNIVERSITY M.A. , Astronomy and Astrophysics	2017
UNIVERSITY OF NEW MEXICO B.S. , Astrophysics, Minor in Mathematics, <i>Magna Cum Laude</i>	2015

RELATED EMPLOYMENT

NASA EINSTEIN FELLOW, Northwestern University	2022–Present
CIERA POSTDOCTORAL FELLOW, Northwestern University	2021–2022
CONTENT DEVELOPER, HarvardX	2017–2020
<ul style="list-style-type: none">• University Chemistry: Molecular Foundations and Global Frontiers• Reclaiming Argument: An Introduction to Logical Reasoning• The FDA and Prescription Drugs: Current Controversies in Context• Science of the Physical Universe 30: Super-Earths and Life• Fundamentals of Neuroscience Part 3: The Brain	
LABORATORY ASSISTANT, Harvard University Supervisor: Lincoln Greenhill, Ph.D.	2015–2016
TELESCOPE OPERATOR, Long Wavelength Array, University of New Mexico	2013–2015
SUMMER RESEARCH ASSISTANT, ASTRON Supervisor: Richard Fallows, Ph.D.	2014

TEACHING & ADVISING

CO-ADVISOR, Alice Cai, Graduate Student, Northwestern University The First Large Census of Fast Radio Burst Host Galaxies with Gemini	2024–Present
CO-ADVISOR, Yuxin Dong, Graduate Student, Northwestern University Potential Analogs of a Repeating Fast Radio Burst	2021–Present
TUTOR, Northwestern Prison Education Program Robert Boyd, Undergraduate Brian McClendon, Undergraduate	2022–Present

GUEST LECTURER, Northwestern University	2024
Course: ASTRON 441: Supermassive Black Holes (Advanced Topics)	
Prof: Claude-André Faucher-Giguère, Ph.D.	
HEAD TEACHING FELLOW, Harvard University	Spring 2017, 2018, 2019
Course: Science of the Physical Universe 22: From the Big Bang to the Brontosaurus and Beyond	
Prof: Irwin Shapiro, Ph.D.	

AWARDS

NASA Hubble Fellowship Program Einstein Fellowship	2022
ALMA Ambassador (<i>\$10,000 USD</i>)	2021
CIERA Postdoctoral Fellowship	2021
ALMA Cycle 7 Student Observing Support (<i>\$17,000 USD</i>)	2019
ALMA Cycle 6 Student Observing Support (<i>\$33,000 USD</i>)	2018
National Science Foundation Graduate Research Fellowship Honorable Mention	2017
Harvard University Bok Center Certificate of Distinction in Teaching	2017
La Serena School for Data Science Full Scholarship	2017
New Mexico Space Grant Consortium Scholarship	2014
University of New Mexico Undergraduate Research Award	2013

TELESCOPE TIME ALLOCATIONS (AS PI)

Very Large Array (VLA); 15 Proposals	483 hr
Including 286 hours through a VLA Large Program (24A-331)	
Gemini (<i>Large and Long Program</i>)	200 hr
Atacama Large Millimeter/submillimeter Array (ALMA); 4 proposals	48 hr
Very Long Baseline Array (VLBA); 1 proposal	3 hr
Arecibo; 1 proposal	15 hr
Submillimeter Array; 1 proposal	7 tracks
Australia Telescope Compact Array; 1 proposal	36 hours
Chandra; 5 proposals (<i>Total Support Funding: \$186,746 USD</i>)	289 ks
XMM Newton; 1 proposal	120 ks

LEADERSHIP & PROFESSIONAL SERVICE

Co-Chair, <i>CMB-S4 Sources & Transients Working Group</i>	2024–Present
Co-Chair, <i>CHIME/FRB Host Working Group</i>	2024–Present
Referee for <i>ApJ</i> , <i>ApJL</i> , <i>MNRAS</i> & <i>Nature</i>	2019–Present
SOC Member, <i>FRB2025 Conference</i>	2024–2025
SOC Member, <i>FRB2023 Conference</i>	2022–2023
Panel Member, <i>NASA Review</i>	2023
Seminar Coordinator, Astronomy Seminar, <i>CIERA</i> , <i>Northwestern University</i>	2022–2023
Coordinator, Journal Club, <i>CIERA</i> , <i>Northwestern University</i>	2022–2023
Panel Member, NRAO Annual Program Review, <i>National Science Foundation</i>	2022
Peer Review Facilitator, <i>Chandra Cycle 19 Peer Review</i>	2017
Telescope Operator, <i>University of New Mexico</i>	2013–2015

PROFESSIONAL DEVELOPMENT

ALMA Ambassador Training	2022
GROWTH Astronomy School: Follow up of transients in the era of multi-messenger astronomy	2019
ICRAR/CASS Radio School	2019
Jerusalem Winter School in Theoretical Physics, The Physics of Astronomical Transients	2018

OUTREACH

Tutor, <i>Northwestern Prison Education Program (NPEP)</i>	2021–Present
Co-chair, Academic Support Committee at Stateville Correctional Center, <i>NPEP</i>	2021–2022
Seminar Coordinator, <i>Beacon Hill Seminars</i>	2018–2020
Speaker Chair and Blog Writer, <i>Harvard Science in the News</i>	2016–2019
Mentor to first-year graduate students, <i>Harvard Astronomy</i>	2019
Graduate student panelist, <i>Smithsonian Astrophysical Observatory Solar Physics REU</i>	2019
Local Organizing Committee, <i>ComSciCon</i>	2018
Poster Judge, <i>National Collegiate Research Conference</i>	2018
Volunteer, <i>Cambridge Explores the Universe</i>	2018
Graduate student panelist, <i>Wellesley College</i>	2017
Mentor, <i>Science Club for Girls</i>	2016–2017
Digital Mentor, <i>YouthAstroNet</i>	2016–2017
Mentor, <i>Harvard University Women in Stem</i>	2016

INVITED TALKS

1. Berkeley Theoretical Astrophysics Center Seminar	Expected 2025
2. Fast Radio Burst Frontiers: Unveiling Their Origins with Multi-Wavelength and Multi-Messenger Synergy	Expected 2025
3. Canadian Astrophysical Society 2024 Annual Meeting	June 2024
4. NASA Goddard Space Flight Center Colloquium	May 2024
5. University of Illinois Urbana-Champaign Colloquium	2023
6. The Astrophysics of Fast Radio Bursts II, Flatiron Institute	2023
7. UC Santa Cruz Colloquium	2023
8. Multi-wavelength follow-up of FRBs in the era of routine (sub)arcsecond localizations, University of Toronto	2023
9. University of British Columbia Colloquium	2023
10. Herzberg Astronomy and Astrophysics Research Centre Colloquium	2023
11. Kavli Institute for Cosmological Physics, University of Chicago Seminar	2023
12. Florida State University Astrophysics Seminar	2022
13. IAU Symposium 369: The Dawn Of Cosmology & Multi-Messenger Studies With Fast Radio Bursts	2022
14. Astrophysics with the CMB-S4 Survey – Part II: Source and Transient Science	2022
15. Caltech Tea Talk	2022
16. Pennsylvania State University Transients Group	2022
17. CMB-S4 Spring 2021 Collaboration Meeting	2021
18. The Astrophysics of Fast Radio Bursts, Flatiron Institute	2020

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| 19. Toronto FRB Day, CITA/Dunlap Institute | 2019 |
| 20. FRBs and their Possible Neutron Star Origins, Amsterdam | 2019 |
| 21. Columbia University, Department of Astronomy Pizza Lunch | 2019 |
| 22. Institute for Theory and Computation Luncheon, Harvard University | 2019 |

PUBLIC TALKS

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| 1. Amateur Astronomers, Inc | 2022 |
| 2. Astronomical Society of the Palm Beaches | 2022 |
| 3. Gloucester Area Astronomy Club | 2021 |
| 4. New Hampshire Astronomical Society | 2018 |

CONFERENCE CONTRIBUTIONS

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| 1. Catching the Jet Shut Off in the Relativistic Tidal Disruption Event AT2022cmc (<i>Talk</i>)
<i>American Astronomical Society 243rd Meeting</i> | 2023 |
| 2. Elucidating the Origin of Fast Radio Bursts with Radio and X-ray Observations (<i>Talk</i>)
<i>NHFP Fellows Symposium</i> | 2022 |
| 3. Extragalactic Millimeter Transients in the Era of Next-Generation CMB Surveys (<i>Talk</i>)
<i>3rd URSI Atlantic Radio Science Meeting</i> | 2022 |
| 4. Millimeter Transients in the Era of CMB Surveys (<i>Talk</i>)
<i>Spoken-WERRD Symposium</i> | 2021 |
| 5. Unveiling the Progenitors of Superluminous Supernovae with Radio and Millimeter Observations (<i>Talk</i>)
<i>Narayan Group Meeting, Center for Astrophysics Harvard and Smithsonian</i> | 2020 |
| 6. Unveiling the Progenitors of Superluminous Supernovae with Radio and Millimeter Observations (<i>Talk</i>)
<i>TUNA Talk, National Radio Astronomy Observatory</i> | 2020 |
| 7. Late-time Radio Observations of Superluminous Supernovae: Implications for Central Engines and Fast Radio Bursts (<i>Talk</i>)
<i>Compact Objects Group Meeting, Flatiron Center for Computational Astrophysics</i> | 2020 |
| 8. Late-time Radio and Millimeter Observations of Superluminous Supernovae and Long Gamma-ray Bursts (<i>Poster</i>)
<i>Royal Astronomical Society Early Career Poster Exhibition</i> | 2020 |
| 9. Millimeter Transients with CMB-S4 (<i>Talk</i>)
<i>CMB-S4 Spring 2020 Collaboration Meeting, Lawrence Berkeley National Laboratory</i> | 2020 |
| 10. Millimeter Transients in the Era of CMB Surveys (<i>Talk</i>)
<i>Astrophysics with the CMB-S4 Survey, University of Chicago</i> | 2019 |
| 11. Tidal Disruption Events and Fast Radio Burst (<i>Talk</i>)
<i>Transients Group Meeting, CIERA Northwestern University</i> | 2018 |
| 12. Radio Monitoring of the Tidal Disruption Event Swift J1644+57 (<i>Poster</i>)
<i>Jerusalem Winter School in Theoretical Physics, The Physics of Astronomical Transients</i> | 2018 |
| 13. On the Association of Fast Radio Bursts and Their Hosts (<i>Talk</i>)
<i>Workshop on Fast Radio Bursts, McGill University</i> | 2017 |

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| 14. Multi-wavelength Monitoring of the Relativistic TDE Swift J1644+57 (<i>Poster</i>)
<i>American Astronomical Society 229th Meeting</i> | 2017 |
| 15. Tidal Disruption Events: A Multi-Wavelength Approach (<i>Talk</i>)
<i>Time-Domain Astrophysics in the American Northeast</i> | 2016 |
| 16. A Low Frequency Survey of Giant Pulses from the Crab Pulsar (<i>Poster</i>)
<i>American Astronomical Society 225th Meeting 2015</i> | 2015 |

PUBLICATIONS

I have been an author on 66 publications with > 11,000 citations, including **11 first-author publications**, and 3 second-author publications. A full listing of my publications can be found on the [ADS](#).

FIRST AUTHOR PUBLICATIONS

1. *The Massive and Quiescent Elliptical Host Galaxy of the Repeating Fast Radio Burst FRB20240209A*
T. Eftekhari, Y. Dong, W. Fong, et al.
2025, Accepted to ApJL, pp. 15 ([arXiv: 2410.2333](#))
2. *Late-time X-ray Observations of the Jetted Tidal Disruption Event AT2022cmc: The Relativistic Jet Shuts Off*
T. Eftekhari, T. Tchekhovskoy, K. D. Alexander, et al.
2024, ApJ, 974, 149, pp. 10 ([arXiv: 2404.10036](#))
3. *An X-ray Census of Fast Radio Burst Host Galaxies: Constraints on AGN and X-ray Counterparts*
T. Eftekhari, W. Fong, A. C. Gordon, et al.
2023, ApJ, 958, 66, pp. 19 ([arXiv: 2307.03766](#))
4. *Extragalactic Millimeter Transients in the Era of Next Generation CMB Surveys*
T. Eftekhari, E. Berger, B. D. Metzger, et al.
2022, ApJ, 935, 16, pp. 19 ([arXiv: 2110.05494](#))
5. *Late-time Radio and Millimeter Observations of Superluminous Supernovae and Long Gamma-Ray Bursts: Implications for Obscured Star Formation, Central Engines, and Fast Radio Bursts*
T. Eftekhari, B. Margalit, C. M. B. Omand, et al.
2021, ApJ, 912, 21, pp. 23 ([arXiv:2010.06612](#))
6. *Wandering Massive Black Holes or Analogs of the First Repeating Fast Radio Burst?*
T. Eftekhari, E. Berger, B. Margalit, B. D. Metzger, P. K. G. Williams
2020, Astrophysical Journal, 895, 98, pp. 10 ([arXiv:2001.02688](#))
7. *A Radio Source Coincident with the Superluminous Supernova PTF10hgi: Evidence for a Central Engine and an Analogue of the Repeating FRB121102?*
T. Eftekhari, E. Berger, B. Margalit, et al.
2019, Astrophysical Journal Letters, 876, L10, pp. 10 ([arXiv:1901.10479](#))
8. *Associating Fast Radio Bursts with Extragalactic Radio Sources: General Methodology and a Search for a Counterpart to FRB 170107*
T. Eftekhari, E. Berger, P. K. G. Williams, P. K. Blanchard
2018, Astrophysical Journal, 860, 73, pp. 9 ([arXiv:1802.09525](#))
9. *Radio Monitoring of the Tidal Disruption Event Swift J164449.3+573451. III. Late-time Jet Energetics and a Deviation from Equipartition*
T. Eftekhari, E. Berger, B. A. Zauderer, et al.
2018, Astrophysical Journal, 854, 86, pp. 12 ([arXiv:1710.07289](#))

10. *Associating Fast Radio Bursts with Their Host Galaxies*
T. Eftekhari & E. Berger
 2017, *Astrophysical Journal*, 849, 162, pp. 7 ([arxiv:1705.02998](https://arxiv.org/abs/1705.02998))
11. *A Low Frequency Survey of Giant Pulses from the Crab Pulsar*
T. Eftekhari, K. Stovall, J. Dowell, F. K. Schinzel, G. B. Taylor
 2016, *Astrophysical Journal*, 829, 62, pp. 8 ([arxiv:1607.08612](https://arxiv.org/abs/1607.08612))

SECOND AUTHOR PUBLICATIONS † = GRADUATE STUDENT MENTEE

1. *A Radio Study of Persistent Radio Sources in Nearby Dwarf Galaxies: Implications for Fast Radio Bursts*
 Y. Dong[†], **T. Eftekhari**, W. Fong, 2024, Submitted to ApJ
2. *Mapping Obscured Star Formation in the Host Galaxy of FRB 20201124A*
 Y. Dong[†], **T. Eftekhari**, W. Fong, A. Deller et al., 2023, ApJ
3. *Radio Monitoring of the Tidal Disruption Event Swift J164449.3+573451. IV. The Slow Fade*
 Y. Cendes, **T. Eftekhari**, E. Berger, E. Polisensky et al., 2021, ApJ, 908, 125

PUBLICATIONS AS NTH AUTHOR

1. *A repeating fast radio burst source in the outskirts of a quiescent galaxy*
 V. Shah et al., 2025, Accepted to ApJL
2. *Late-time HST and JWST Observations of GRB 221009A: Evidence for a Break in the Light Curve at 50 Days*
 H. Sears et al., 2024, arXiv:2412.02663
3. *A Search for Persistent Radio Sources toward Repeating Fast Radio Bursts Discovered by CHIME/FRB*
 A. Ibik et al., 2024, ApJ, 976, 2
4. *PS1-11aop: Probing the Mass Loss History of a Luminous Interacting Supernova Prior to its Final Eruption with Multi-wavelength Observations*
 A. Ibik et al., 2024, arXiv:2410.15140
5. *Multiwavelength constraints on the origin of a nearby repeating fast radio burst source in a globular cluster*
 A. Pearlman et al., 2024, Nature Astronomy
6. *The Type I superluminous supernova catalogue I: light-curve properties, models, and catalogue description*
 S. Gomez et al., 2024, MNRAS, 535, 1
7. *A Millimeter Rebrightening in GRB 210702A*
 S. de Wet et al., 2024, ApJ, 974, 2
8. *The Peculiar Radio Evolution of the Tidal Disruption Event ASASSN-19bt*
 C. T. Christy, et al., 2024, ApJ, 974, 1
9. *A pulsar-like swing in the polarisation position angle of a nearby fast radio burst*
 R. Mckinven, M. Bhardwaj, **T. Eftekhari**, et al., 2024, Nature
10. *The Jet Opening Angle and Event Rate Distributions of Short Gamma-Ray Bursts from Late-time X-Ray Afterglows*
 A. Rouco Escorial, et al., 2023, ApJ, 959, 13
11. *Constraints on the Persistent Radio Source Associated with FRB 20190520B Using the European VLBI Network*
 S. Bhandari, B. Marcote, N. Sridhar, **T. Eftekhari**, et al., 2023, ApJ, 958, 19

12. *A Fast Radio Burst in a Compact Galaxy Group at $z \sim 1$*
A. C. Gordon, et al., 2023, ApJ, 963, 34
13. *Luminous Radio Emission from the Superluminous Supernova 2017ens at 3.3 yr after Explosion*
R. Margutti, et al., 2023, ApJ, 954, 45
14. *The Demographics, Stellar Populations, and Star Formation Histories of Fast Radio Burst Host Galaxies: Implications for the Progenitors*
A. C. Gordon, W. Fong, C. D. Kilpatrick, **T. Eftekhari**, et al., 2023, 954, 80
15. *Multiwavelength Constraints on the Origin of a Nearby Repeating Fast Radio Burst Source in a Globular Cluster*
A. B. Pearlman et al., 2023, Nature
16. *A radio-emitting outflow produced by the tidal disruption event AT2020vwl*
A. J. Goodwin et al., 2023, MNRAS, 522, 5084
17. *Millimeter Observations of the Type II SN 2023ixf: Constraints on the Proximate Circumstellar Medium*
E. Berger et al., 2023, ApJ, 951L, 31
18. *A non-repeating fast radio burst in a dwarf host galaxy*
S. Bhandari et al., 2022, ApJ, 948, 67
19. *The Jet Opening Angle and Event Rate Distributions of Short Gamma-ray Bursts from Late-time X-ray Afterglows*
A. Rouco Escorial et al., 2022, ApJ, 959, 13
20. *Evidence for X-Ray Emission in Excess to the Jet-afterglow Decay 3.5 yr after the Binary Neutron Star Merger GW 170817: A New Emission Component*
A. Hajela, et al., 2022, ApJ, 972L, 17
21. *Chronicling the Host Galaxy Properties of the Remarkable Repeating FRB 20201124A*
W. Fong et al., 2021, ApJ, 919L, 23
22. *Probabilistic Association of Transients to their Hosts (PATH)*
K. Aggarwal, et al., 2021, ApJ, 911, 95
23. *A Late-Time Galaxy-Targeted Search for the Radio Counterpart of GW190814*
K. D. Alexander, et al., 2021, ApJ, 923, 66
24. *Radio Observations of an Ordinary Outflow from the Tidal Disruption Event AT2019dsg*
Y. Cendes, et al., 2021, ApJ, 919, 127
25. *The Broadband Counterpart of the Short GRB 200522A at $z = 0.5536$: A Luminous Kilonova or a Collimated Outflow with a Reverse Shock?*
W. Fong et al., 2022, ApJ, 906, 127
26. *The Tidal Disruption Event AT 2018hyz II: Light-curve modelling of a partially disrupted star*
S. Gomez et al., 2020, MNRAS, 497, 1952
27. *AT 2018cow VLBI: No Long-Lived Relativistic Outflow*
M. F. Bietenholz et al., 2020, MNRAS, 491, 4735
28. *Two years of non-thermal emission from the binary neutron star merger GW170817: rapid fading of the jet afterglow and first constraints on the kilonova fastest ejecta*
A. Hajela et al., 2019, ApJ, 886, L17
29. *A Galaxy-Targeted Search for the Optical Counterpart of the Candidate NS-BH Merger S190814bv with Magellan*
S. Gomez et al., 2019, ApJ, 884, L55

30. *The Optical Afterglow of GW170817: An Off-axis Structured Jet and Deep Constraints on a Globular Cluster Origin*
W. Fong et al., 2019, ApJL, 883, L1
31. *Follow-up of the Neutron Star Bearing Gravitational Wave Candidate Events S190425z and S190426c with MMT and SOAR*
G. Hosseinzadeh et al., 2019, ApJL, 880, L4
32. *An embedded X-ray source shines through the aspherical AT2018cow: revealing the inner workings of the most luminous fast-evolving optical transients*
R. Margutti et al., 2019, ApJ, 872, 18
33. *Unveiling the Engines of Fast Radio Bursts, Super-Luminous Supernovae, and Gamma-Ray Bursts*
B. Margalit et al., 2018, MNRAS, 481, 2407
34. *Spitzer Space Telescope Infrared Observations of the Binary Neutron Star Merger GW170817*
V. A. Villar et al. 2018, ApJL, 862, L11
35. *A Decline in the X-ray through Radio Emission from GW170817 Continues to Support an Off-Axis Structured Jet*
K. D. Alexander et al., 2018, ApJL, 863, 18L
36. *A Precise Distance to the Host Galaxy of the Binary Neutron Star Merger GW170817 Using Surface Brightness Fluctuations*
M. Cantiello et al., 2018, ApJ, 854, 31L
37. *The Binary Neutron Star event LIGO/VIRGO GW170817 a hundred and sixty days after merger: synchrotron emission across the electromagnetic spectrum*
R. Margutti et al., 2018, ApJ, 856, 18L
38. *Design and characterization of the Large-Aperture Experiment to Detect the Dark Age (LEDA) radiometer systems* D. Price et al., 2018, MNRAS, 478, 4193
39. *Improved Constraints on H_0 from a combined analysis of gravitational-wave and electromagnetic emission from GW170817*
C. Guidorzi et al., 2017, ApJ, 851, 36L
40. *A gravitational-wave standard siren measurement of the Hubble constant*
B. P. Abbott et al., 2017, Nature, 551, 85
41. *The Electromagnetic Counterpart of the Binary Neutron Star Merger LIGO/VIRGO GW170817. II. UV, Optical, and Near-IR Light Curves and Comparison to Kilonova Models*
P. S. Cowperthwaite et al., 2017, ApJ, 848, 17L
42. *The Electromagnetic Counterpart of the Binary Neutron Star Merger LIGO/VIRGO GW170817. III. Optical and UV Spectra of a Blue Kilonova From Fast Polar Ejecta*
M. Nicholl et al., 2017, ApJ, 848, L18
43. *The Electromagnetic Counterpart of the Binary Neutron Star Merger LIGO/VIRGO GW170817. IV. Detection of Near-infrared Signatures of r-process Nucleosynthesis with Gemini-South*
R. Chornock et al., 2017, ApJ, 848, L19
44. *The Electromagnetic Counterpart of the Binary Neutron Star Merger LIGO/VIRGO GW170817. V. Rising X-ray Emission from an Off-Axis Jet*
R. Margutti et al., 2017, ApJ, 848, L20
45. *The Electromagnetic Counterpart of the Binary Neutron Star Merger LIGO/VIRGO GW170817. VI. Radio Constraints on a Relativistic Jet and Predictions for Late-Time Emission from the Kilonova Ejecta*
K. D. Alexander et al., 2017, ApJ, 848, L21

46. *The Electromagnetic Counterpart of the Binary Neutron Star Merger LIGO/VIRGO GW170817. VII. Properties of the Host Galaxy and Constraints on the Merger Timescale*
P. K. Blanchard et al., 2017, ApJ, 848, L22
47. *The Electromagnetic Counterpart of the Binary Neutron Star Merger LIGO/VIRGO GW170817. VIII. A Comparison to Cosmological Short-duration Gamma-ray Bursts*
W. Fong et al., 2017, ApJ, 848, L23
48. *Bifrost: a Python/C++ Framework for High-Throughput Stream Processing in Astronomy*
M. D. Cranmer et al., 2017, JAI, 6, 1750007
49. *Empirical constraints on the origin of fast radio bursts: volumetric rates and host galaxy demographics as a test of millisecond magnetar connection*
M. Nicholl et al., 2017, ApJ, 843, 84
50. *Bayesian Constraints on the Global 21-cm Signal from the Cosmic Dawn*
G. Bernardi et al., 2016, MNRAS, 461, 3
51. *Digital Signal Processing using Stream High Performance Computing: A 512-input Broadband Correlator for Radio Astronomy*
J. Kocz et al., 2015, JAI, 4 50003
52. *Pulsar Observations Using the First Station of the Long Wavelength Array and the LWA Pulsar Data Archive*
K. Stovall et al., 2015, ApJ, 808, 156