ALESSANDRA CORSI, Ph.D.

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CONTACT INFORMATION

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EDUCATION AND ACADEMIC POSITIONS

- **2003:** Laurea in Physics cum laude, University of Rome Sapienza.
- **2007:** Ph.D. in Astronomy, University of Rome Sapienza.
- **2007 - 2008:** Post-doc, National Inst. for Astrophysics (Rome, Italy), University of Rome Sapienza.
- **2008 - 2010:** Post-doc, University of Rome Sapienza, Pennsylvania State University.
- **2010 - 2012:** Post-doc, California Institute of Technology.
- **2012 - 2014:** Assistant Professor of Physics, The George Washington University.
- **2014 - 2018**: Assistant Professor of Physics, Texas Tech University.
- **2016 - 2018:** Honorary Adjunct Assistant Professor of Math. and Stat., Texas Tech University.
- **2018 - 2023:** Associate Professor of Physics and Astronomy, Texas Tech University.
- **2023 - present:** Professor of Physics and Astronomy, Texas Tech University.

SUMMARY OF INTERESTS, ACTIVITIES, AND ACCOMPLISHMENTS

- **Research interests and leadership roles**: I work on time-domain multi-messenger astronomy. I have vast experience with observations of astrophysical transients, and follow-up of gravitational wave (GW) events. I work on detection algorithms for GW data as well. I play multiple key roles for the National Radio Astronomy Observatory, the LIGO Scientific Collaboration, and the Cosmic Explorer management team.
- **Honors and awards**: I am a Fellow of the American Physical Society; my awards include a New Horizons Prize in Physics (Breakthrough Foundation); a TAMEST Edith and Peter O'Donnell award in Science; an NSF CAREER award; a L'Oreal-UNESCO award for Women in Science.
- **Publications**: Co-authored more than 300 peer-reviewed journal articles; h-index: 98.
- **Media communications**: I have experience interviewing with journalists ranging from tiny local newspapers to international documentary production teams for public television. In 2017, I reported on the discovery of the radio afterglow of GW170817 at the National Press Club in Washington D.C.
- **Research funding**: I have secured $\approx$ 2.6 million USD total as Principal Investigator (PI) via grants of the National Science Foundation, NASA, and U.S. Department of Energy.
- **Observing proposals**: $\approx$ 850 hrs total as PI on U.S. national radio observing facilities.
- **Conference talks, seminars, colloquia, and lectures**: 37 invited colloquia/seminars; 47 invited contributions at conferences; 3 invited lectures.
- **Research supervision**: Primary research advisor of 5 post-docs; 8 graduate students; 22 undergraduate students; 3 high-school students.
- **Diversity, equity, and inclusion**: I lead several educational initiatives involving minority serving institutions (TTU-RADIAL/NINE); I give public talks specifically targeting minorities.
- **Public Outreach**: I have experience engaging the general public and students at all levels (including high school and age 50+ seniors), and have partnered with local schools and community.
- **Teaching**: My teaching experience includes large general education Astronomy courses; advanced undergraduate and graduate level Astrophysics and Physics courses; Student-Centered Active Learning Environment for Undergraduate Programs (SCALE-UP).
- **Service**: I routinely serve on award/conference organization/time allocation committees, grant review panels, as referee for several major astronomy journals, on departmental university committees, and faculty hiring committees across fields (astrophysics, particle and condensed matter physics).

PROFESSIONAL LEADERSHIP ROLES AND MEMBERSHIPS

- **American Astronomical Society (AAS):**
  - Member (2013-present).
- **American Physical Society (APS)**:
  - **Secretary/Treasurer**, Division of Astrophysics Executive Committee (2023-present);
  - **Deputy Secretary/Treasurer**, Division of Astrophysics Executive Committee (2021-2023);
  - Member-at-large, Division of Gravitational Physics, Executive Committee (2019-2022);
  - Member (2012-present).
- **CMB-S4**:
  - Member, Science Collaboration (2022-present).
- **Cosmic Explorer**:
  - Multi-messenger Science Liaison, **Management Team** (2022-present);
  - Member, Scientific Consortium (2020-present).
- **Global Relay of Observatories Watching Transients Happen (GROWTH)**:
  - Member (2015-2020).
- **JAGWAR** (Jansky VLA Mapping of Gravitational Wave Bursts as Afterglows in the Radio):
  - **Co-chair** (2019-present)
- **Laser Interferometer Space Antenna (LISA):**
  - Consortium associate member (2020-present).
- **LIGO Scientific Collaboration**:
  - **Co-chair**, Burst Review Committee (2020-present);
  - Burst Benchmark Committee member (2022-2023);
  - Program Committee member (2018-2020);
  - **Co-chair**, Publication & Presentation Committee (2016-2018);
  - Member (2010-present).
- **NASA:**
  - **Co-chair**, Gravitational Wave Science Interest Group (GWSIG; 2023-present);
  - Member, Executive Committee, Physics of the Cosmos Program Analysis Group (2023-present);
  - Member, Fermi User Group (2022-present).
- **National Radio Astronomy Observatory (NRAO)**:
  - **Co-chair**, VLA/VLBA to ngVLA Transition Advisory Group (TAG; 2022-present);
  - **Co-chair**, ngVLA Science Working Group 5 (dynamic universe; 2022-present);
  - Member, ngVLA Science Advisory Committee (SAC; 2022-present);
  - Member, NRAO/GBO User Committee (2020-2022);
  - Member, Common Astronomy Software Applications (CASA) User Committee (2019-2022).
- **Palomar Transient Factory / Zwicky Transient Facility (PTF/ZTF)**:
  - Member / Collaborator (2010-present).
- **Rubin LSST**:
  - Member, User Committee (2022-present);
  - Member, Transients and Variable (TVS) Stars Collaboration (2021-present);
  - Alternate Member, CEC (International in-kind Contribution Evaluation Committee; 2021-2023);
  - **Chair**, Follow-up sub-committee of the CEC (2021).

- **Virgo Collaboration**:
  - Member (2007-2010).

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HONORS, AWARDS, AND SCHOLARSHIPS

Individual Honors and Awards

- **New Horizons in Physics Prize** of the Breakthrough Foundation "for leadership in laying foundations for electromagnetic observations of sources of gravitational waves, and leadership in extracting rich information from the first observed collision of two neutron stars" (2022).
- **President's Excellence in Research Professorship**, Texas Tech University (2020-present).
- **2020 SN 10: Scientists to Watch** list by *Science News* (2020).
- **Edith and Peter O'Donnell Award in Science** from TAMEST (The Academy of Medicine, Engineering and Science of Texas) "for her paradigm-shifting research on the merger of stars and black holes" (2020).
- **Above and Beyond Raiders Who Rock Award**, recognizing students, faculty, and staff who make Texas Tech a better community for all of its members (2019).
- **Fellow of the APS** "for major contributions to the discovery of both gravitational wave sources and their electromagnetic counterparts" (since 2019).
- **NSF Early CAREER Awardee** (2015-2021).
- **Fellow of the Research Corporation for Science Advancement** (Scialog) (TDA, 2015-2016).
- **Distinguished Ph.D. scholar award**, Rome University Sapienza Ph.D. program 30th anniversary (2014).
- **Distinguished invitee of the President of the Italian Republic Prof. Giorgio Napolitano**, women's day celebration at the Quirinale (2009).
- **Italian l'Oréal-UNESCO National Awardee "For Women in Science"** (2008).

Team Awards (as part of the LIGO Scientific Collaboration)

- Einstein Medal (2017).
- Princess of Asturias Award for Technical and Scientific Research (2017).
- AAS Bruno Rossi Prize for high-energy astrophysics (2017).
- UK Royal Astronomical Society Group Achievement Award in Astronomy (2017).
- Gruber Cosmology Prize (2016).
- Special Breakthrough Prize in Fundamental Physics (2016).

Scholarships

- Albert Einstein Institute, Max Planck (Hannover, Germany) - 1 month visiting scholarship (2010).
- Penn State Institute for Gravitation and the Cosmos - 1 month visiting scholarship (2009).
- Angelo Della Riccia Foundation - post-doctoral scholarship (2009).
- Angelo Della Riccia Foundation - post-doctoral scholarship (2008).
- INFN scholarship for graduate students (2006).
- INFN (Italian National Institute for Nuclear Physics) scholarship for graduate students (2005).

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PUBLICATIONS

- Co-authored more than 300 peer-reviewed journal articles.
- h-index: 98

Publication record as returned by NASA/ADS or Google Scholar can be accessed via the following links*:

- Link to NASA ADS list of refereed papers
- Link to Google Scholar entry

*These links select also some papers from another A. Corsi. They are not about astronomy so they are easy to identify.

Selected Refereed Journal Articles

1. **Corsi**, Ho, Cenko et al. A search for relativistic ejecta in a sample of ZTF broad-lined Type Ic supernovae. Astrophysical Journal, 953(2):179, 2023 – NASA ADS link
2. Eddins, Lee, **Corsi** et al. A search for kilonova radio flares in a sample of Swift/BAT short GRBs. Astrophysical Journal, 948:125, 2023 (**Note: Paper led by my graduate student**) – NASA ADS link
3. Balasubramanian, **Corsi**, Mooley et al. GW170817 4.5 Yr After Merger: Dynamical Ejecta Afterglow Constraints. Astrophysical Journal, 938(1):12, 2022 (**Note: Paper led by my graduate student**) – NASA ADS link.
4. Balasubramanian, **Corsi**, Mooley et al. Continued radio observations of GW170817 3.5 years post-merger. **Astrophysical Journal Letters**, 914:L20, 2021 (**Note: Paper led by my graduate student**) – NASA ADS link
5. **Corsi**, Hallinan, Lazzati et al. An Upper Limit on the Linear Polarization Fraction of the GW170817 Radio Continuum. **Astrophysical Journal Letters**, 861:L10, 2018 – NASA ADS link
6. Hallinan, **Corsi**, Mooley, Hotokezaka et al. A radio counterpart to a neutron star merger. **Science**, 358:1579, 2017 (**Note: Hallinan and Corsi share first authorship on this paper**) – NASA ADS link
7. LSC and Virgo Collaboration. Search for Post-merger Gravitational Waves from the Remnant of the Binary Neutron Star Merger GW170817. **Astrophysical Journal Letters**, 851:L16, 2017 (**Note: I contributed substantially to this paper as a memebr of the paper writing team**) – NASA ADS link
8. LSC and Virgo Collaboration, Fermi Gamma-Ray Burst Monitor, INTEGRAL. Gravitational Waves and Gamma-rays from a Binary Neutron Star Merger: GW170817 and GRB 170817A. **Astrophysical Journal Letters**, 848:L13, 2017 (**Note: I contributed substantially to this paper as a member of the LVC paper review team**) – NASA ADS link
9. LSC and Virgo Collaboration et al. Multi-messenger Observations of a Binary Neutron Star Merger. **Astrophysical Journal Letters**, 848:L12, 2017 (**Note: I contributed substantially to this paper by providing the radio data**) – NASA ADS link
10. Coyne, **Corsi**, and Owen. Cross-correlation method for intermediate-duration gravitational wave searches associated with gamma-ray bursts. **Physical Review D**, 93:104059, 2016 (**Note: Paper led by my graduate student**) – NASA ADS link
11. **Corsi**, Gal-Yam, Kulkarni et al. Radio Observations of a Sample of Broad-line Type Ic Supernovae Discovered by PTF/IPTF: A Search for Relativistic Explosions. **Astrophysical Journal**, 830:42, 2016 – NASA ADS link
12. **Corsi**, Ofek, Gal-Yam et al. A Multi-wavelength Investigation of the Radio-loud Supernova PTF11qcj and its Circumstellar Environment. **Astrophysical Journal**, 782:42, 2014 – NASA ADS link
13. **Corsi**, Ofek, Gal-Yam et al. Evidence for a Compact Wolf-Rayet Progenitor for the Type Ic Supernova PTF10vgv. **Astrophysical Journal Letters**, 747:L5, 2012 – NASA ADS link
14. LSC and Virgo Collaboration et al. Implementation and testing of the first prompt search for gravitational wave transients with electromagnetic counterparts. **Astronomy & Astrophysics**, 539:124, 2012 (**Note: I led the Palomar Transient Factory contribution to this paper**) – NASA ADS link

15. **Corsi** and Owen. Maximum gravitational-wave energy emissible in magnetar flares. **Physical Review D**, 83:104014, 2011 – NASA ADS link
16. **Corsi**, Guetta, Piro. High-energy Emission Components in the Short GRB 090510. **Astrophysical Journal**, 720:1008, 2010 – NASA ADS link
17. **Corsi** and Mészáros. Gamma-ray Burst Afterglow Plateaus and Gravitational Waves: Multi-messenger Signature of a Millisecond Magnetar? **Astrophysical Journal**, 702:1171, 2009 – NASA ADS link
18. Virgo Collaboration. Search for gravitational waves associated with GRB 050915a using the Virgo detector. **Classical and Quantum Gravity**, 25:225001, 2008 (**Note: I am the corresponding author for this paper**) – NASA ADS link

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SELECTED MEDIA COMMUNICATIONS

- Interviewee, documentary movie on GW170817, **NHK Japanese Public TV** (2018).
- Invited panel member, Discovery of GW170817, **USA National Press Club** (2017).
- Interviewee, **TTU "Communicator in a Cart"** (2017).
- Interviewee, Radio discovery of GW170817, **Newsweek** (2017).
- Interviewee, Radio discovery of GW170817, **NRAO Press Release** (2017).
- Interviewee, Radio discovery of GW170817, **Optics and Photonics** (2017).
- Interviewee, Radio discovery of GW170817, **Nature News** (2017).
- Interviewee, Radio discovery of GW170817, **Science** (2017).
- Interviewee, Radio discovery of GW170817, **Physics Today** (2017).
- Interviewee, Radio discovery of GW170817, **Lubbock Avalanche Journal** (2017).
- Interviewee, Radio discovery of GW170817, **The Washington Post** (2017).
- Interviewee, LIGO discovery of gravitational waves, **Nature News** (2016).
- Interviewee, LIGO discovery of gravitational waves, **APS News** (2016).
- Interviewee, LIGO discovery of gravitational waves, **Houston Chronicle** (2016).
- Interviewee, LIGO discovery of gravitational waves, **Lubbock Avalanche Journal** (2016).
- Interviewee, LIGO discovery of gravitational waves, **KCBD TV news** (2016).
- Radio Spot, LIGO discovery of gravitational waves, **KTTZ radio** (2016).
- Interviewee, **TTU Arts and Sciences campaign** (2016).
- Interviewee, "In-course Discoveries", **PANORAMA magazine (Ed. Mondadori)** (2009).
- Interviewee, "New Excellences", **ELLE magazine (Ed. Hachette Rusconi)** (2009).
- Interviewee, research accomplishments, **Italian National Radio Tre station** (2009).

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SELECTED (PI ONLY) APPROVED RESEARCH GRANTS

Note: ≈ 2.6 million USD total as Principal Investigator

1. **Department of Energy DE-SC0024591**, "Diaspora: Resilience-enabling services for science from HPC to edge" (**499.999 kUSD**; 2023-2028)
2. **NSF AST-2307358**, "Cosmic Collisions, Relativistic Blasts, and their Remnants in the Era of Multi-Messenger Astronomy" (**431.25 kUSD**; 2023-2026)
3. **NASA/Swift Cycle 19 GI**, "A SEARCH FOR BL-IC SNE WITH X-RAY AFTERGLOWS USING ZTF+SWIFT" (**40 kUSD**; 2024-2025).

4. **NASA/Swift Cycle 18 GI**, "A SEARCH FOR BL-IC SNE WITH X-RAY AFTERGLOWS USING ZTF+SWIFT" (**40 kUSD**; 2023-2024).
5. **NASA/Swift Cycle 17 GI**, "A SEARCH FOR BL-IC SNE WITH X-RAY AFTERGLOWS USING ZTF+SWIFT" (**40.7 kUSD**; 2021-2022).
6. **NSF-Gravity PHY-2011608**, "Unmasking the Remnants of Gamma-Ray Bursts in the Era of Gravitational Wave Astronomy" (**262.5 kUSD**; 2020-2024).
7. **NSF AST-1907975**: "WoU-MMA: Collaborative Research: Combining Theory with Observations to Unlock the Multi-Messenger Physics of Compact Binary Mergers" (**268.6 kUSD**; 2019-2023).
8. **NASA/Swift Cycle 16 GI**, "A SEARCH FOR BL-IC SNE WITH X-RAY AFTERGLOWS USING ZTF+SWIFT" (**37.3 kUSD**; 2020-2021).
9. **NSF-CAREER AST-1455090**, "CAREER: Radio and gravitational-wave emission from the largest explosions since the Big Bang" (**720 kUSD**; 2015-2021).
10. **Chandra Cycle 19 GI**, "Unraveling the physics of engine-driven SNe with ZTF+Chandra" (**24 kUSD**; 2018-2019).
11. **Chandra Cycle 18 GI**, "Chandra late-time observations of PTF11QCJ: CSM-interacting SN or off-axis GRB?" (**35.8 kUSD**; 2017-2018).
12. **Chandra DDT #17508570**, "iPTF17cw: A relativistic broad-lined type Ic supernovae discovered by iPTF" (**7.4 kUSD**; 2017-2018)
13. **ngVLA Community Study**, "Cosmic Explosions and Collisions in the ngVLA Era," NSF/NRAO (**5.7 kUSD**; 2016-2017).
14. **NASA/Swift Cycle 12 GI**, "Joint iPTF-VLA-Swift follow-up of aLIGO events" (**39 kUSD**; 2016-2017).
15. **NASA/Swift Cycle 11 GI**, "Unraveling the missing link between 1998bw-like SNe and GRBs" (**40 kUSD**; 2015-2016).
16. **NASA/Swift Cycle 10 GI**, "Unraveling the missing link between 1998bw-like SNe and GRBs" (**30 kUSD**; 2014-2015).
17. **NSF-Gravity PHY-1307623**, "Gravitational waves, gamma-ray bursts, and the multi-messenger exploration of the transient sky" (**126 kUSD**; 2013-2016).
18. **Chandra DDT #501797**, "PTF 11QCJ: first discovery of a radio luminous Ibn SN" (**12.2 kUSD**; 2011-2012).
19. **Chandra DDT #501794**, "PTF 11QCJ: first discovery of a radio luminous Ibn SN" (**7 kUSD**; 2011-2012).
20. **Chandra DDT #501793**, "Supernova PTF 11qcj: first discovery of a radio luminous Ic SN interacting with an He shell? " (**10.1 kUSD**; 2011-2012).
21. **Spitzer proposal**, "PTF 11QCJ: first discovery of a radio luminous Ibn SN" (**2 kUSD**; 2011-2012).
22. **NASA/Swift Cycle 7 GI**, "Millimeter and optical follow-up of Swift Gamma-Ray Bursts: reverse shock emission and high redshift events" (**15 kUSD**; 2011-2012).

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SELECTED (PI ONLY) APPROVED OBSERVING PROPOSALS

Note: ≈ 850 hrs allocated on the Karl G. Jansky VLA and ALMA as Principal Investigator

1. **VLA/23B-172**, "Radio follow up of sub-threshold GRBs associated with O4 GW triggers" (**30 hrs**).
2. **VLA/23A-062**, "Radio counterparts of likely cosmic neutrino events in IceCube data" (**4 hrs**).

3. **VLA/22B-235**, "Jansky VLA mapping of Gravitational Waves as Afterglows in Radio (JAGWAR)" (**156 hrs** for the duration of the LIGO-Virgo-KAGRA O4 run).
4. **VLA/22A-394**, "Jansky VLA mapping of Gravitational Waves as Afterglows in Radio (JAGWAR)" (**80 hrs**).
5. **SH0105**, "A search for BL-Ic SNe with X-ray afterglows using ZTF+Swift" (**9 hrs**).
6. **VLA/20B-472**, "Long-term radio monitoring of GW170817: An emerging kilonova afterglow?" (**14 hrs**).
7. **VLA/20B-149**, "A VLA quest for relativistic explosions in the era of ZTF II" (**48 hrs**).
8. **VLA/20A-568**, "VLA follow-up of the nearby BL-Ic supernova ZTF20aazkjfv (SN2020jqm)" (**10 hrs**).
9. **SG0117**, "A search for BL-Ic SNe with X-ray afterglows using ZTF+Swift" (**6 hrs**).
10. **VLA/19B-230**, "A VLA+ZTF Systematic Quest for Relativistic Explosions" (**20 hrs**).
11. **VLA/19A-094**, "A radio polarization study of supernova PTF11qcj" (**4.75 hrs**).
12. **VLA/18B-204**, "Long-term radio monitoring of GW170817 with the Jansky VLA" (**28 hrs**).
13. **VLA/18A-457**, "Continued radio monitoring of GW170817 with the JVLA" (**17.5 hrs**).
14. **VLA/18A-240**, "Late-time VLA follow-up of the relativistic supernova iPTF17cw" (**3.5 hrs**).
15. **VLA/18A-176**, "A VLA+ZTF systematic quest for relativistic BL-Ic supernovae" (**40 hrs**).
16. **VLA/17B-428**, "Unveiling the radio signature of a relativistic SN associated with GRB 171205A" (**7 hrs**).
17. **VLA/17A-237**, "Radio follow-up of GWs during Advanced LIGO O3" (**45 hrs**).
18. **ALMA/2016.1.00950.T**, "Unraveling the physics of broad-line type Ic supernovae with ALMA" (**4.6 hrs**).
19. **VLA/16B-044**, "Discovering GBM GRB Afterglows with iPTF+VLA" (**10.5 hrs**).
20. **VLA/16B-043**, "VLA follow-up of iPTF Ib/c SNe: An efficient quest for relativistic explosions" (**18 hrs**).
21. **ALMA/2015.1.00910.T**, "Unraveling the physics of broad-line type Ic supernovae with ALMA" (**5.3 hrs**).
22. **VLA/16A-206**, "Radio counterparts to gravitational waves in the Advanced LIGO Era" (**36 hrs**).
23. **VLA/15B-288**, "Probing the magnetar scenario for GRBs with the VLA" (**2.5 hrs**).
24. **VLA/15A-339**, "Radio fingerprints of relativistic explosions in the advanced LIGO era" (**30 hrs**).
25. **VLA/15A-314**, "VLA follow-up of iPTF Ib/c SNe: An efficient quest for relativistic explosions" (**28 hrs**).
26. **VLA/14B-490**, "GRB 141121A: An ultra-long GRB with a reverse shock?" (**12.5 hrs**).
27. **VLA/14A-476**, "Long-term follow-up of the radio loud supernova PTF11qcj with the VLA" (**8 hrs**).
28. **VLA/14A-434**, "VLA follow-up of iPTF Ib/c SNe: An efficient quest for relativistic explosions" (**36 hrs**).
29. **VLA/14A-430**, "Probing the composition of GRB jets with VLA: a quest for reverse shocks" (**45 hrs**).
30. **VLA/13A-508**, "Late-Time Follow-up of GRB 130215A with the VLA" (**12.25 hrs**).
31. **VLA/13A-411**, "Probing the composition of GRB jets with JVLA: a quest for reverse shocks" (**45 hrs**).
32. **VLA/12B-195**, "Radio follow-up of exotic Ic SNe discovered by PTF" (**27 hrs**).
33. **VLA/11B-247**, "PTF11QCJ: first discovery of a radio luminous Ibn SN" (**15 hrs**).

34. **VLA/11B-034**, "Radio Follow-up of Broad Line Ic SNe Discovered by the Palomar Transient Factory" (**20 hrs**).
35. **VLA/11A-227**, "Search for early and late radio emission from broad-line Ic SN detected by PTF" (**12.5 hrs**).
36. **VLA/10C-227**, "Late time follow-up of the broad-line Ic SN PTF10bzf" (**2 hrs**).

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SELECTED CONFERENCE TALKS, COLLOQUIA, SEMINARS, AND LECTURES

Invited Seminars and Colloquia

1. "Relativistic transients in the era of multi-messenger astronomy," colloquium (Department of Physics, **University of Florida**; planned for Fall 2023).
2. "Multi-messenger observations of cosmic collisions: progenitors, relativistic ejecta, and remnants," colloquium (IAS and Department of Astrophysics, **Princeton University**; September 2023).
3. "Relativistic transients in the era of multi-messenger astronomy," colloquium (**Max Planck Institute for Radio Astronomy in Bonn**; April 2023).
4. "Multi-messenger observations of cosmic collisions: progenitors, relativistic ejecta, and remnants," colloquium (Department of Astronomy, **University of Wisconsin-Madison**; 2023).
5. "Multi-messenger observations of cosmic collisions: progenitors, relativistic ejecta, and remnants," colloquium (Department of Physics and Astronomy, **Johns Hopkins University**; 2023).
6. "Multi-messenger observations of cosmic collisions, relativistic blasts, and their remnants," colloquium (Kavli Institute for Particle Astrophysics and Cosmology, **Stanford University**; 2022).
7. "Relativistic transients in the era of multi-messenger astronomy," colloquium (Department of Physics, **McGill University**; 2022).
8. "Multi-messenger observations of cosmic collisions, relativistic blasts, and their remnants," seminar (**American Museum of Natural History**; 2022).
9. "Multi-messenger observations of cosmic collisions, relativistic blasts, and their remnants," colloquium (Department of Physics and Astronomy, **University of New Mexico**; 2022).
10. "Multi-messenger observations of cosmic collisions, relativistic blasts, and their remnants," colloquium (Department of Physics, **Columbia University in the City of New York**; 2022).
11. "Multi-messenger observations of cosmic collisions, relativistic blasts, and their remnants," seminar (**Institute of Science and Technology Austria** - ISTA; 2022).
12. "Multi-messenger observations of cosmic collisions, relativistic blasts, and their remnants," seminar (Department of Astronomy and Astrophysics, **Pennsylvania State University**; 2022).
13. "Multi-messenger observations of cosmic collisions, relativistic blasts, and their remnants," seminar (School of Physics, **Georgia Institute of Technology**; 2022)
14. "Multi-messenger observations of the most relativistic cosmic bangs: from outflows to remnants," seminar (Department of Physics and Astronomy, **University of Kentucky**; 2021).
15. "Multi-messenger observations of the most relativistic cosmic bangs: from outflows to remnants," lunch talk (Center for computational relativity and gravitation, **Rochester Institute of Technology**; 2021).
16. "Multi-messenger observations of the most relativistic cosmic bangs: from outflows to remnants," colloquium (Physics Department, **Carnegie Mellon University**; 2021).
17. "Unmasking progenitors & remnants of the most relativistic cosmic bangs via MMA," colloquium (Physics and Astronomy Department, **York University**; 2021).

18. "Multi-messenger exploration of the transient radio sky," colloquium (Physics and Astronomy Department, **University of Texas Rio Grande Valley**; 2020).
19. "Multi-messenger exploration of the transient radio sky with LIGO," colloquium (Physics Department, **University of Missouri in St. Louis**; 2020).
20. "Multi-messenger time-domain astronomy: GW170817 and the future," seminar (Department of Physics and Astronomy, **Rice University**; 2018).
21. "Multi-messenger time-domain astronomy: GW170817 and the future," colloquium (Physics Department, **University of Oregon**; 2018).
22. "Radio and GW observations of the transient sky: GW170817 and future prospects," colloquium (**University of Arizona**, Steward Observatory; 2018).
23. "Multi-messenger time-domain astronomy: GW170817 and the future," colloquium (School of Physics and Astronomy, **University of Minnesota**; 2018).
24. "Radio and gravitational wave studies of cosmic explosions and collisions," colloquium, (Physics Department, **Texas A&M Commerce**; 2017).
25. "Radio and gravitational wave studies of cosmic explosions and collisions," colloquium, (Physics and Astronomy Department, **University of Texas San Antonio**; 2017).
26. "Gamma-ray bursts, gravitational waves, and multi-messenger exploration of the transient sky," colloquium (Physics and Astronomy Department, **Texas A&M**; 2014).
27. "Gamma-ray bursts, gravitational waves, and multi-messenger exploration of the transient sky," colloquium (Physics Department, **Florida Atlantic University**; 2014).
28. "Gamma-ray bursts, gravitational waves, and multi-messenger exploration of the transient sky," colloquium (Physics Department, **Texas Tech University**; 2014).
29. "Gamma-ray bursts, gravitational waves, and multi-messenger exploration of the transient sky," colloquium (ITC, **Harvard-Smithsonian Center for Astrophysics**; 2013).
30. "LIGO and the multi-messenger exploration of the transient sky," seminar (LIGO Laboratory, **Caltech**; 2011).
31. "LIGO in the multi-messenger astrophysics era," IGC colloquium (**Penn Sate University**; 2010).
32. "Gamma-Ray Bursts and Gravitational Waves: a tool for multi-messenger astrophysics," colloquium (Astro-Particle and Cosmology Institute, **CNRS Paris**; 2009).
33. "Gamma-Ray Bursts and Gravitational Waves: a tool for multi-messenger astrophysics," colloquium (**Max Planck Institute for Gravitational Wave Physics**, Hannover, Germany; 2009).
34. "Search for Gravitational Waves associated with GRB 050915a using the Virgo detector," seminar (Center for Gravitational Wave Physics, **Penn State University**; 2008).
35. "Exploring the nature of GRB progenitors: afterglow analysis and search for gravitational waves," seminar (**National Institute for Nuclear Physics**, Frascati, Rome, Italy; 2008).
36. "Gamma-Ray Burst afterglows: fireball physics & clues to the progenitor," seminar (**Osservatorio Astronomico di Brera**, Italy; 2007).
37. "Gamma-Ray Burst afterglows: fireball physics & clues to the progenitor," seminar (**Istituto Nazionale di Astrofisica**, Rome; 2007).

Invited Conference Contributions

1. "Infrastructure challenges on the horizon in support of upcoming facilities," discussion panel for the **Windows on the Universe: Establishing the Infrastructure for a Collaborative Multi-messenger Ecosystem** workshop (Tucson, AZ; October 2023).
2. "Observations of GRB jets," **GRB50: The Past, Present, and Future of Gamma-Ray Bursts** (Warrenton, VA; August 2023).

3. "Keynote talk on MMA", **New Evolution of MultiMessenger Astrophysics** (State College, PA: August 2023).
4. "Radio observations of stripped-envelope core-collapse supernovae and long GRBs in the era of multi-messenger time-domain astronomy," **19th Annual Meeting of the High Energy Astrophysics Division of the American Astronomical Society** (Waikoloa, Hawaii; March 2023).
5. "Compact Binary Coalescences in the Era of Multi-Messenger Astronomy," **Scientific Frontiers and Synergies for the DSA-2000 Radio Camera** (Pasadena, CA; March 2023).
6. "Electromagnetic counterparts of gravitational waves," **2023 Nevada Center for Astrophysics Symposium** (Nevada, LA; February 2023)
7. "The next decade of multi-messenger time-domain astronomy: opportunities and challenges for ground-based discovery and follow up," **241st Meeting of the American Astronomical Society** (Seattle, WA; January 2023).
8. "Multi-messenger observations of relativistic transients," **The 2nd Donglu Astrophysics Forum** (China - via Zoom; September 2022).
9. "Merger-Driven Transients: NS-NS, NS-BH, BH-BH," **NASA Time Domain and Multi-Messenger (TDAMM) Initiative Workshop** (Annapolis, MD; August 2022).
10. "Multi-messenger Astrophysics," discussion panel for the **8th PAX (Physics and Astrophysics at the Extreme) workshop**, Massachusetts Institute of technology (Cambridge, MA; August 2022).
11. "MMA Opportunities in the XG Era", **Aspen Summer Workshop** on next generation GW detectors (Aspen, CO; July 2022).
12. "Multi-messenger observations of gravitational-wave transients," **GWADW2022** Approaching the low-frequency design sensitivity of ground-based detectors (Tokyo - via Zoom; May 2022).
13. "Prospects for multi-messenger astronomy in the era of 3G detectors," Next-generation gravitational wave observatories session of the **April APS meeting** (New York City, NY; April 2022).
14. "Observations of GW Afterglows," **IAU Symposium 363** - Neutron Star Astrophysics at the Crossroads: Magnetars and the Multi-messenger Revolution (on Zoom; December 2021).
15. "The transient radio sky in the era of multi-messenger astronomy," Plenary session of the **2021 IEEE International Conference on Antenna Measurements and Applications** (Antibes Juan-les-Pins, France - via Zoom; November 2021)
16. "Multi-messenger time-domain astronomy: GW170817 and the future," **Gravitational Waves Astrophysics Conference 2021**, (Hefei, China - via Zoom; June 2021).
17. "Multi-messenger time-domain astronomy: GW170817 and the future," Spring 2021 **National Meeting of the American Chemical Society** (on Zoom; April 2021).
18. "Multi-messenger exploration of the transient radio sky with LIGO," keynote talk, 2021 virtual **National Radio Science Meeting** (on Zoom; January 2021).
19. "Multi-messenger Observations," discussion panel for the **First Cosmic Explorer Conference**, member (on Zoom; October 2020).
20. "Stellar-mass BBH and their electromagnetic counterparts," discussion panel on electromagnetic follow-up for the **13th LISA Symposium**, member (on Zoom; September 2020).
21. "Stellar Compact Object mergers and short Gamma-Ray Bursts," **Compact Objects and Energetic Phenomena in the Multi-Messenger Era** - Virtual mini conference (on Zoom; July 2020).
22. "Summary of LIGO BNS, NS-BH detections/candidates," **TCAN workshop** on BNS/BH-NS mergers (on Zoom; July 2020).

23. "Multi-messenger time-domain astronomy: GW170817, current GW+EM searches, and the future," 2019 Joint Fall Meeting of the **Texas Sections of APS, AAPT and Zone 13 of the SPS** (Lubbock, TX; 2019).
24. "Radio follow-up of gravitational waves in the Advanced LIGO/Virgo era," **Cospar 2018 42nd Assembly**, Caltech / JPL (Pasadena, CA; July 2018).
25. "Gravitational-Wave Astronomy with Advanced LIGO: Detections, Implications, and Future Prospects," **Cospar 2018 42nd Assembly**, Caltech / JPL (Pasadena, CA; July 2018).
26. "Gravitational Waves and associated emissions," **Cospar 2018 42nd Assembly**, Caltech / JPL (Pasadena, CA; July 2018).
27. "Long GRBs and core-collapse SNe in the ngVLA era," **Astrophysics Frontiers in the next decade** (Portland, OR; 2018).
28. "Radio counterparts from GW events," **Vulcano Workshop** - Frontier Objects in Astrophysics and Particle Physics (Vulcano, Italy; 2018).
29. "VLBI Futures: LIGO and GRB follow-up," **VLBI Futures Workshop** (Lubbock, TX; 2018).
30. "Gravitational-Wave Astronomy with Advanced LIGO: Detections, Implications, and Future Prospects," **Simons Institute for the Theory of Computing Workshop**, UC Berkeley (Berkeley, CA; 2018).
31. "Cosmic Collisions (and explosions) in the ngVLA Era," **Developing the ngVLA science program workshop** (Socorro, NM; 2017).
32. "LIGO - Gravitational Wave Detection and Future Plans," **XIth International Conference of Interconnections between Particle Physics and Cosmology** (Corpus Christi, TX; 2017).
33. "Supernovae driven by Relativistic Engines," **Boutiques & Experiments** 2016: Radio Astronomy, CalTech (Pasadena, CA; 2016).
34. "The future of ground based GW astrophysics," 2016 **April APS meeting** (Salt Lake City, UT; 2016).
35. "Radio and gravitational waves from the most relativistic cosmic explosions," **Building Astronomy in Texas Symposium** (Texas A&M; 2015).
36. "Electromagnetic follow-up of gravitational waves," **Paving the Way to multi-Wavelength Astronomy Workshop** (Leiden, The Netherlands; 2015).
37. "Astrophysics of Gravitational Wave Transients," **Planning for the post-detection era in gravitational wave detectors and astrophysics Workshop** (Silver Springs, MD; 2015).
38. "Gravitational Waves from Gamma-ray bursts," **Ioffe Workshop on GRBs and other explosive transients: Twenty Years of Konus-Wind Experiment** (St. Petersburg, Russia; 2014).
39. "Compact-object Models and Astrophysics Extraction," **GR meeting**, panel discussion member (South Padre Island, TX; 2013).
40. "Joining the Electromagnetic and Gravitational Wave Skies," **January AAS meeting**, panel discussion member (Long Beach, CA; 2013).
41. "Gravitational Waves from Gamma-ray Bursts," **Fall 2012 GRB Symposium** (Malaga, Spain; 2012).
42. "Electromagnetic follow-up of Gravitational Wave events," **Gravitational-wave Physics & Astronomy Workshop** (Hannover, Germany; 2012).
43. "Gravitational Waves from Gamma-ray Bursts," **Swift & Fermi Gamma-ray Burst Conference** (Munich, Germany; 2012).
44. "Gravitational waves from Supernovae and Gamma-Ray Bursts," **IAU Symposium 279** (Nikko, Japan; 2012).
45. "GW and EM Messengers from Magnetars and GRBs," **Inaugural Workshop on Astrophysical Multi-messenger Observatory Network** (State College, PA; 2011).

46. "Gravitational Waves and High energy emission from GRBs: an observational review," **COSPAR meeting** (Bremen, Germany; 2010).
47. "High energy emission from short GRBs," **7th AGILE Workshop** (Rome, Italy; 2009).

Invited Lectures

1. "Multi-messenger exploration of the Transient Radio Sky," **16th Synthesis Imaging Workshop** (Socorro, NM; 2018).
2. "Multi-messenger exploration of the transient sky with LIGO and the VLA," **15th Synthesis Imaging Workshop** (Socorro, NM; 2016).
3. "Electromagnetic follow-up and Transients Astronomy," lecture, **Caltech International Gravitational Wave Astrophysics School** (Pasadena, CA; 2015).

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RESEARCH SUPERVISION AS PRIMARY ADVISOR

Post-doctoral Scholars

1. Dr. Kara Merfeld, Texas Tech University (2023-present).
2. Dr. Dario Carbone, Texas Tech University (2017-2019).
3. Dr. Nipuni Palliyaguru, Texas Tech University (2015-2017).
4. Dr. Robert Coyne, Texas Tech University (2015-2017).
5. Dr. Peter Veres, The George Washington University (2013-2014).

Graduate Students

1. Tanner O'Dwyer, Texas Tech University (2023-present).
2. Kyle Wipfili, Texas Tech University (2023-present).
3. Avery Eddins, Texas Tech University (2022-present).
4. Tanazza Khanam, Texas Tech University (2019-present).
5. Arvind Balasubramanian, Texas Tech University (2018-2022).
6. Deven Bhakta, Texas Tech University (2017-2020).
7. Eric Sowell, Texas Tech University (2016-2020).
8. Robert Coyne, The George Washington University (2012-2015).

Research Undergraduate Students

1. Jazlann Barefield, Texas Tech University (2023-present).
2. Clive Binu, Texas Tech University (2022-2023).
3. Avery Cook, Texas Tech University (2020-2021).
4. Heather Harbin, Texas Tech University (2018-2021).
5. Pryia Rajkumar, Texas Tech University (2018-2021).
6. Anthony Rushing, Texas Tech University (2018-2019).
7. Connor Grandorf, Texas Tech University (2018-2019).
8. Eric Garcia, Texas Tech University (2018).
9. Connor Spinuzzi, Texas Tech University (2018).

10. Rachel Smith, Texas Tech University (2017-2018).
11. Kyle Artkop, Texas Tech University (2017-2018).
12. Deven Bhakta, Texas Tech University (2014-2017).
13. Chance Norris, Texas Tech University (2015-2016).
14. Brody Moore, Texas Tech University (2015).
15. Carrah Osborn, Texas Tech University (2015).
16. Kyle Stewart, Texas Tech University (2015).
17. Matteo Di Giovanni, Texas Tech University (Summer 2015).
18. Derek Brehm, The George Washington University (2012-2014).
19. Ajayi Scott-Robinson, The George Washington University (2013-2014).
20. Igor Andreoni, The George Washington University (Summer 2013).
21. Maria Concetta Tringali, California Institute of Technology (Summer 2011).
22. Sibilla Di Pace, University of Rome Sapienza (2009).

Research High-School Students

1. Joseph McCarty, Clark Scholar and Student Researcher, Texas Tech University (2019-2020).
2. Nishit Mishra, Clark Scholar, Texas Tech University (2016-2017).
3. Frank Padgett, The George Washington University (2014).

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CONTRIBUTIONS TO DIVERSITY, EQUITY, AND INCLUSION

- **Director** of the TTU-Hub for the National and International Exchange Program (NINE) within the NRAO Office of Diversity and Inclusion (2019-present).
- NRAO RADIAL Development Lab, MSI representative for TTU (2019-present).
- TTU Spanish Bucy Lecture, **founder and chair** (2019-present).
- UNM Womxn in Physics panel discussion (on Zoom, Spring 2022).
- NRAO Diversity, inclusion, and broader impacts review panel, member (2021).
- NRAO Student Observing Support (SOS) Committee, member (2020-2021).
- "RADIAL: Partnering with Minority Serving Institutions to Develop Innovations in STEM+C E-learning", Exhibitor Webinar presenter, 237th meeting of the American Astronomical Society (on Zoom; 2021).
- Volunteer lecturer, "Multi-messenger Time-domain Astronomy: GW170817 and the Future", Talkington School for Young Women Students (Lubbock, TX; 2020).
- Keynote speaker, "A global venture in Astrophysics and Higher Education", Regional Meeting of the Texas Women in Higher Education (2016).
- Career Panel member, the TTU Emmy Noether High School Mathematics Day (2015).

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PUBLIC OUTREACH

- Volunteer lecturer, Astronomy Club at Seven Lakes High School in Katy, TX (on Zoom, Spring 2021).
- Judge & Prize Sponsor, South Plains Regional Science and Engineering Fair (Lubbock, TX; 2017-present).

- Guest speaker, "VLA In-class Activity", Coronado High School, (Lubbock, TX; 2018).
- Keynote speaker, South Plains Regional Science and Engineering Fair (Lubbock, TX; 2017).
- Invited lecturer, "Solar system exploration: A journey through our cosmic neighborhood", TTU Osher Lifelong Learning Institute (Lubbock, TX; 2016).
- Volunteer participant, "2014 Astronomy Festival on the National Mall" (Washington, DC; 2014).
- Volunteer lecturer, "Hunting for the most powerful cosmic explosions: Gamma-ray bursts and their gravitational-wave fingerprints", TC Williams High School (Alexandria, VA; 2013).

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TEACHING EXPERIENCE

- **Radiative Processes in Astrophysics** (undergraduate and graduate level; Spring 2015, Fall 2020, Fall 2021, Fall 2022, Fall 2023).
- **Special Topics: Radio Astronomy** (undergraduate and graduate level; Spring 2020, Spring 2021, Spring 2022, Spring 2023).
- **Stellar Astronomy for non-science majors** ($\approx$ 120 students per semester, using clickers and "think-pair-share" technique; Spring 2018, Fall 2018, Spring 2019).
- **Advanced Electricity and Magnetism II** (graduate level; Fall 2017).
- **Solar System Astronomy for non-science majors** ($\approx 130-180$ students, using clickers, "think-pair-share" technique; Fall 2015, Spring 2016, Fall 2016, Spring 2017).
- **Extra-galactic Astronomy course for non-science majors** ("The origin of the Cosmos"; $\approx 40-60$ students, using clickers, "think-pair-share" technique, and SCALE-UP format; Spring 2013, Fall 2013, Spring 2014).

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SERVICE TO PROFESSION AND UNIVERSITY

Note: Some dates omitted to maintain confidentiality

Service roles for the broad scientific community

- In-person reviewer of the Joint Institute for VLBI ERIC (JIVE).
- Cecilia Payne-Gaposchkin Doctoral Dissertation Award in Astrophysics, Selection Committee, **chair** and member.
- LSSTC Catalyst Fellowship, Selection Committee, member.
- Texas Section of the APS, Steven Weinberg and Robert S. Hyer Research Awards, Selection Committee, member.
- NSF Division of Physics, Committee of Visitors, member.
- NRAO program review panel for the NSF, member.
- Time Allocation Committee for ALMA, the VLA, the NASA *Fermi* and NASA *Swift* Guest Investigator Programs, member; the NASA *Chandra* Guest Investigator Program, **chair**.
- Annual report referee for the MeerKAT Large Survey Project ThunderKAT.
- Grant referee for: the NSF; the European Research Council Starting Grants; the Israeli Science Foundation; the Swiss National Science Foundation; the Gordon and Betty Moore Foundation; the John Templeton Foundation; the NASA post-doctoral fellowships.
- Journal referee for: Nature Physics, The Astrophysical Journal, The Astrophysical Journal Letters, Monthly Notices of the Royal Astronomical Society, Physical Review D, General Relativity and Gravitation, The Physics Teacher.

Conference Organization

- Scientific Organizing Committee, member, Windows on the Universe: Establishing the Infrastructure for a Collaborative Multi-messenger Ecosystem (Tucson, Arizona; 2023).
- International Scientific Program Committee, member, Multi Messenger and Gravitational Wave (MM&GW) session of the 38th ICRC (Nagoya, Japan; 2023).
- **Co-chair** for the follow-up session, 2022 Rubin Project and Community Workshop (Tucson, AZ; August 2022).
- Scientific Organizing Committee, member, Planets, Galaxies, and Gravitational Waves in the ngVLA Era (Flatiron Institute, New York City, 2022).
- Scientific Organizing Committee, member, Gravitational Wave Physics and Astronomy Workshop (Hannover, Germany, 2021).
- Scientific Organizing Committee, member, Seventh Physics & Astrophysics at the eXtreme (PAX-VII; On Zoom, 2021).
- International Scientific Program Committee, member, gamma-ray direct (ISPC-GAD) sessions of the 37th ICRC (on Zoom, July 2021).
- Scientific Organizing Committee, member, Statistical Methods for the Detection, Classification, and Inference of Relativistic Objects (on Zoom, 2020).
- Scientific Organizing Committee, member, Radio/millimeter Astrophysical Frontiers in the Next Decade (Charlottesville, 2019).
- Local Organizing Committee, member, NRAO Community Day at TTU, (Lubbock, 2019).
- Scientific Organizing Committee, member, 22nd International Conference on General Relativity and Cosmology (Valencia, 2019).
- Scientific Organizing Committee, **chair** of the Relativistic Astrophysics Session, 21st International Conference on General Relativity and Cosmology (New York, 2016).
- Scientific Organizing Committee, member, The Explosive Death of Massive Stars - COSPAR science assembly (Istanbul, 2016).
- Scientific Organizing Committee, member, The Explosive Death of Massive Stars - COSPAR science assembly (Moscow, 2014).
- Scientific and Local Organizing Committee, **chair**, LIGO-Virgo-Fermi Collaborations International Workshop on Gamma-ray Bursts and Gravitational Waves (Washington D.C., 2013).
- Local Organizing Committee, member, 14th Gravitational Wave Data Analysis Workshop (Rome, 2010).

University service

- TTU PHAS tenure-track faculty, Hiring Committee, member (2017, 2018, 2019, 2022, 2023).
- TTU PHAS Undergraduate Program Committee, **chair** (2021-present).
- TTU College of Arts and Sciences, Associate Dean for Research, Search Committee, member (2023).
- TTU PHAS Undergraduate Program Committee, member (2016-2020).
- TTU Spanish Bucy Lectureship, **chair** (2022).
- TTU Bucy Lectureship Committee, **chair** (2015-2020).
- TTU PHAS Colloquium Committee, **chair** (2015-2017, Spring 2018-Spring 2019, Spring 2020).
- GWU Physics Undergraduate Committee, member (2012-2014).
- GWU Physics Colloquium Committee, member (2012-2014).
- GWU Physics Curriculum Development Committee, member (2013-2014)

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ALESSANDRA CORSI, Ph.D.

List of Publications

Bibliography

- Co-authored more than 300 peer-reviewed journal articles
- h-index: 98

Publication record as returned by NASA/ADS or Google Scholar can be accessed via the following links*:

- Link to NASA ADS list of refereed papers
- Link to Google Scholar entry

*These links select also some papers from another A. Corsi. They are not about astronomy so they are easy to identify.

Complete list of short-authorlist refereed publications (published and accepted)

[1] Alessandra Corsi, Anna Y. Q. Ho, S. Bradley Cenko, Shrinivas R. Kulkarni, Shreya Anand, Sheng Yang, Jesper Sollerman, Gokul P. Srinivasaragavan, Conor M. B. Omand, Arvind Balasubramanian, Dale A. Frail, Christoffer Fremling, Daniel A. Perley, Yuhan Yao, Aishwarya S. Dahiwale, Kishalay De, Alison Dugas, Matthew Hankins, Jacob Jencson, Mansi M. Kasliwal, Anastasios Tzanidakis, Eric C. Bellm, Russ R. Laher, Frank J. Masci, Josiah N. Purdum, and Nicolas Regnault. A Search for Relativistic Ejecta in a Sample of ZTF Broad-lined Type Ic Supernovae. *Astrophysical Journal*, 953(2):179, August 2023.

[2] Hinna Shivkumar, Amruta D. Jaodand, Arvind Balasubramanian, Christoffer Fremling, Alessandra Corsi, Anastasios Tzanidakis, Samaya Nissanke, Mansi Kasliwal, Murray Brightman, Geert Raaijmakers, Kristin Kruse Madsen, Fiona Harrison, Dario Carbone, A. J. Nayana, Jean-Michel Désert, and Igor Andreoni. SN2019wxt: An Ultrastripped Supernova Candidate Discovered in the Electromagnetic Follow-up of a Gravitational Wave Trigger. *Astrophysical Journal*, 952(1):86, July 2023.

[3] Avery Eddins, Kyung-Hwan Lee, Alessandra Corsi, Imre Bartos, Zsuzsanna Márka, and Szabolcs Márka. A Search for Kilonova Radio Flares in a Sample of Swift/BAT Short Gamma-Ray Bursts. *Astrophysical Journal*, 948(2):125, May 2023.

[4] Arvind Balasubramanian, Alessandra Corsi, Kunal P. Mooley, Kenta Hotokezaka, David L. Kaplan, Dale A. Frail, Gregg Hallinan, Davide Lazzati, and Eric J. Murphy. GW170817 4.5 Yr After Merger: Dynamical Ejecta Afterglow Constraints. *Astrophysical Journal*, 938(1):12, October 2022.

[5] K. H. Lee, I. Bartos, A. Eddins, A. Corsi, Z. Márka, G. C. Privon, and S. Márka. Radio Constraints on r-process Nucleosynthesis by Collapsars. *Astrophysical Journal Letters*, 934(1):L5, July 2022.

[6] Igor Andreoni, Raffaella Margutti, Om Sharan Salafia, B. Parazin, V. Ashley Villar, Michael W. Coughlin, Peter Yoachim, Kris Mortensen, Daniel Brethauer, S. J. Smartt, Mansi M. Kasliwal, Kate D. Alexander, Shreya Anand, E. Berger, Maria Grazia Bernardini, Federica B. Bianco, Peter K. Blanchard, Joshua S. Bloom, Enzo Brocato, Mattia Bulla, Regis Cartier, S. Bradley Cenko, Ryan Chornock, Christopher M. Copperwheat, Alessandra Corsi, Filippo D'Ammando, Paolo D'Avanzo, Laurence Élise Hélène Datrier, Ryan J. Foley, Giancarlo Ghirlanda, Ariel Goobar, Jonathan Grindlay, Aprajita Hajela, Daniel E. Holz, Viraj Karambelkar, E. C. Kool, Gavin P. Lamb, Tanmoy Laskar, Andrew Levan, Kate Maguire, Morgan May, Andrea Melandri, Dan Milisavljevic, A. A. Miller, Matt Nicholl, Samaya M. Nissanke, Antonella Palmese, Silvia Piranomonte, Armin Rest, Ana Sagués-Carracedo, Karelle Siellez, Leo P. Singer, Mathew Smith, D. Steeghs, and Nial Tanvir. Target-of-opportunity Observations of Gravitational-wave Events with Vera C. Rubin Observatory. *Astrophysical Journal Supplement*, 260(1):18, May 2022.

[7] A. Balasubramanian, A. Corsi, E. Polisensky, T. E. Clarke, and N. E. Kassim. Radio Observations of SN2004dk with VLITE Confirm Late-time Rebrightening. *Astrophysical Journal*, 923(1):32, December 2021.

[8] S. Makhathini, K. P. Mooley, M. Brightman, K. Hotokezaka, A. J. Nayana, H. T. Intema, D. Dobie, E. Lenc, D. A. Perley, C. Fremling, J. Moldòn, D. Lazzati, D. L. Kaplan, A. Balasubramanian, I. S. Brown, D. Carbone, P. Chandra, A. Corsi, F. Camilo, A. Deller, D. A. Frail, T. Murphy, E. J. Murphy, E. Nakar, O. Smirnov, R. J. Beswick, R. Fender, G. Hallinan, I. Heywood, M. Kasliwal, B. Lee, W. Lu, J. Rana, S. Perkins, S. V. White, G. I. G. Józsa, B. Hugo, and P. Kamphuis. The Panchromatic Afterglow of GW170817: The Full Uniform Data Set, Modeling, Comparison with Previous Results, and Implications. *Astrophysical Journal*, 922(2):154, December 2021.

[9] Arvind Balasubramanian, Alessandra Corsi, Kunal P. Mooley, Murray Brightman, Gregg Hallinan, Kenta Hotokezaka, David L. Kaplan, Davide Lazzati, and Eric J. Murphy. Continued Radio Observations of GW170817 3.5 yr Post-merger. *Astrophysical Journal Letters*, 914(1):L20, June 2021.

[10] Alessandra Corsi and Davide Lazzati. Gamma-ray burst jets in supernovae. *New Astronomy Reviews*, 92:101614, June 2021.

[11] D. Bhakta, K. P. Mooley, A. Corsi, A. Balasubramanian, D. Dobie, D. A. Frail, G. Hallinan, D. L. Kaplan, S. T. Myers, and L. P. Singer. The JAGWAR Prowls LIGO/Virgo O3 Paper I: Radio Search of a Possible Multimessenger Counterpart of the Binary Black Hole Merger Candidate S191216ap. *Astrophysical Journal*, 911(2):77, April 2021.

[12] N. T. Palliyaguru, A. Corsi, M. Pérez-Torres, E. Varenius, and H. Van Eerten. VLBI Observations of Supernova PTF11qcj: Direct Constraints on the Size of the Radio Ejecta. *Astrophysical Journal*, 910(1):16, March 2021.

[13] Nipuni T. Palliyaguru, Devansh Agarwal, Golnoosh Golpayegani, Ryan Lynch, Duncan R. Lorimer, Benjamin Nguyen, Alessandra Corsi, and Sarah Burke-Spolaor. A targeted search for repeating fast radio bursts associated with gamma-ray bursts. *Monthly Notices of the RAS*, 501(1):541–547, February 2021.

[14] C. Grandorf, J. McCarty, P. Rajkumar, H. Harbin, K. H. Lee, A. Corsi, I. Bartos, Z. Márka, A. Balasubramanian, and S. Márka. Search for Radio Remnants of Nearby Off-axis Gamma-Ray Bursts in a Sample of Swift/BAT Events. *Astrophysical Journal*, 908(1):63, February 2021.

[15] R. Ricci, E. Troja, G. Bruni, T. Matsumoto, L. Piro, B. O'Connor, T. Piran, N. Navaieelavasani, A. Corsi, B. Giacomazzo, and M. H. Wieringa. Searching for the radio remnants of short-duration gamma-ray bursts. *Monthly Notices of the RAS*, 500(2):1708–1720, January 2021.

[16] Mansi M. Kasliwal, Shreya Anand, Tomás Ahumada, Robert Stein, Ana Sagués Carracedo, Igor Andreoni, Michael W. Coughlin, Leo P. Singer, Erik C. Kool, Kishalay De, Harsh Kumar, Mouza AlMualla, Yuhan Yao, Mattia Bulla, Dougal Dobie, Simeon Reusch, Daniel A. Perley, S. Bradley Cenko, Varun Bhalerao, David L. Kaplan, Jesper Sollerman, Ariel Goobar, Christopher M. Copperwheat, Eric C. Bellm, G. C. Anupama, Alessandra Corsi, Samaya Nissanke, Iván Agudo, Ashot Bagdasaryan, Sudhanshu Barway, Justin Belicki, Joshua S. Bloom, Bryce Bolin, David A. H. Buckley, Kevin B. Burdge, Rick Burruss, Maria D. Caballero-García, Chris Cannella, Alberto J. Castro-Tirado, David O. Cook, Jeff Cooke, Virginia Cunningham, Aishwarya Dahiwale, Kunal Deshmukh, Simone Dichiara, Dmitry A. Duev, Anirban Dutta, Michael Feeney, Anna Franckowiak, Sara Frederick, Christoffer Fremling, Avishay Gal-Yam, Pradip Gatkine, Shaon Ghosh, Daniel A. Goldstein, V. Zach Golkhou, Matthew J. Graham, Melissa L. Graham, Matthew J. Hankins, George Helou, Youdong Hu, Wing-Huen Ip, Amruta Jaodand, Viraj Karambelkar, Albert K. H. Kong, Marek Kowalski, Maitreya Khandagale, S. R. Kulkarni, Brajesh Kumar, Russ R. Laher, K. L. Li, Ashish Mahabal, Frank J. Masci, Adam A. Miller, Moses Mogotsi, Siddharth Mohite, Kunal Mooley, Przemek Mroz, Jeffrey A. Newman, Chow-Choong Ngeow, Samantha R. Oates, Atharva Sunil Patil,

Shashi B. Pandey, M. Pavana, Elena Pian, Reed Riddle, Rubén Sánchez-Ramírez, Yashvi Sharma, Avinash Singh, Roger Smith, Maayane T. Soumagnac, Kirsty Taggart, Hanjie Tan, Anastasios Tzanidakis, Eleonora Troja, Azamat F. Valeev, Richard Walters, Gaurav Waratkar, Sara Webb, Po-Chieh Yu, Bin-Bin Zhang, Rongpu Zhou, and Jeffry Zolkower. Kilonova Luminosity Function Constraints Based on Zwicky Transient Facility Searches for 13 Neutron Star Merger Triggers during O3. *Astrophysical Journal*, 905(2):145, December 2020.

[17] Virginia Cunningham, S. Bradley Cenko, Geoffrey Ryan, Stuart N. Vogel, Alessandra Corsi, Antonino Cucchiara, Andrew S. Fruchter, Assaf Horesh, Tuomas Kangas, Daniel Kocevski, Daniel A. Perley, and Judith Racusin. GRB 160625B: Evidence for a Gaussian-shaped Jet. *Astrophysical Journal*, 904(2):166, December 2020.

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