

Ning Jiang

Univ. of Sci. & Tech. of China

Research Associate

[Personal Homepage](#)

Room C-1010-4, Teaching and Research Building of Material
Science

96 Jinzhai Road, Hefei, Anhui, China, 230026

+86-15255165218

+86-0551-63601861

jnac@ustc.edu.cn

Research Interests

- Tidal disruption events.
- Intermediate-mass black holes.
- Supermassive black hole binaries.
- Environments of SMBHs: from sub-pc to halo scale.
- Time domain survey.
- Quasar host galaxies.

Education

- 07/2009–06/2015 **Ph.D. in Astrophysics**, *Univ. of Sci. & Tech. of China*.
- Supervisor: Prof. Tinggui Wang & Xiaobo Dong
- Dissertation: Low-mass Black Holes and Their Host Galaxies
- 10/2012–09/2014 **Research Assistant**, *Carnegie Observatories*.
- Supervisor: Prof. Luis C. Ho
- 09/2005–06/2009 **Bachelor of Physics**, *Univ. of Sci. & Tech. of China*.
- Supervisor: Prof. Tinggui Wang
- Thesis: Quasar Selection for LAMOST Survey based on SDSS-UKIDSS Optical-IR Colors

Position

- 04/2019–present **Research Associate**, *Univ. of Sci. & Tech. of China*.
- 02/2018–03/2019 **Associate Research Fellow**, *Univ. of Sci. & Tech. of China*.
- 07/2015–01/2018 **CFA Postdoc Fellow**, *Univ. of Sci. & Tech. of China*.
- Advisor: Prof. Huiyuan Wang

Honors & Awards

- 2023 **IOP Outstanding Reviewer Awards 2022**.
- 2017 **Top 10 Achievements in Astronomical Science and Technology in 2016 in China**, *The First Detection of Infrared Echoes of Tidal Disruption Events*, National.
- 2017 **Top 10 Research Progresses of School of Physical Sciences in 2016**, *Infrared Echoes of Tidal Disruption Events*, USTC.
- 2014 **National scholarship for graduate students**, USTC, (National).
- 2014 **CAS Dean scholarship**, USTC, (University).

Service

Referee for Research in Astronomy and Astrophysics (5, 2019–).

	Space Science Reviews (1, 2020-).
	The Astrophysical Journal (2, 2021-).
	The Astrophysical Journal Letters (2, 2022-).
	Chinese Science Bulletin (1, 2022-).
	Progress in astronomy (1, 2023-).
Correspondence Reviewer	National Natural Science Foundation of China (NSFC, 2021-).
Committee Member	Time Allocation Committee (TAC) for Telescope Access Program (2023A).

Press Release or Highlights

- 2023.07 [Phys.org](#), *New tidal disruption event discovered by Chinese astronomers.*
- 2023.03 [Phys.org](#), *SN 2017egm is a helium-rich superluminous supernova, study finds.*
- 2022.02 [Science](#), *Crash of the titans: imminent merger of giant black holes predicted.*
- 2020.06 [Phys.org](#), *Mid-infrared flare detected in a nearby active galaxy.*
- 2020.01.30 [AAS Nova Journals Digest](#), *An Ongoing Mid-infrared Outburst in the White Dwarf 0145+234: Catching in Action the Tidal Disruption of an Exoasteroid?.*
- 2019.05.02 [AAS Nova Journals Digest](#), *Rapid "Turn-on" of Type-1 AGN in a Quiescent Early-type Galaxy SDSS1115+0544.*
- 2018.11 [Phys.org](#), *Galaxy NGC 3319 may host an active intermediate-mass black hole, study finds.*
- 2017.07 [Nature News](#), *Clues emerge in mystery of flickering quasars.*
- 2017.05 [AAS Nova Highlights](#), *Echoes from a Dying Star.*
- 2016.09 [NASA/JPL](#), *Studies Find Echoes of Black Holes Eating Stars.*

Publications

[ADS Library for an overview](#): 64 refereed (10 as 1st author, 11 as 2nd author, 11 as 3rd author, 7 as 4th author, 25 as others), 1 invited and 1 non-refereed (RNAAS) publications. Total citations >1000, h-index=20 (as of 2023 August).

Major refereed publications (as 1st or corresponding author*, with >300 citations)

22. Huang, S.-F.*, **Jiang, N.***, Lin, Z.-Y., Zhu, J.-Z., Wang, T.-G., 2023, "AT2018dyk Revisited: a Tidal Disruption Event Candidate with Prominent Infrared Echo and Delayed X-ray Emission in a LINER Galaxy", [MNRAS accepted \(arxiv:2308.09867\)](#).
21. **Jiang, N.***, Zhou, Z.-Y., Zhu, J.-Z., Wang, Y.-B., Wang, T.-G., 2023, "Two Candidate Obscured Tidal Disruption Events Coincident with High-energy Neutrinos", [ApJL, 953, L12](#).
20. Zhu, J.-Z.*, **Jiang, N.***, Wang, T.-G., 2023, "AT 2023clx: the Faintest and Closest Optical Tidal Disruption Event Discovered in Nearby Star-forming Galaxy NGC 3799", [ApJL, 952, L35](#).
19. Zhu, J.-Z., **Jiang, N.***, Dong, S.-B.*, 2023, "SN 2017egm: A Helium-rich Superluminous Supernova with Multiple Bumps in the Light Curves", [ApJ, 949, 23](#).
18. Lin, Z.-Y.*, **Jiang, N.***, Kong, X.*, 2022, "The Luminosity Function of Tidal Disruption Flares for the ZTF-I Survey", [ApJL, 939, L33](#).

17. Dou, L.-M.*, **Jiang, N.***, Wang, T.-G.*, 2022, "X-ray view of a merging supermassive black hole binary candidate SDSSJ1430+2303: results from the first ~ 200 days observations", *A&A*, **665**, L3.
16. Lin, Z.-Y.*, **Jiang, N.***, Kong, X.*, 2022, "The prospects of finding tidal disruption events with 2.5-m Wide-Field Survey Telescope based on mock observations", *MNRAS*, **513**, 2422.
15. Zhang, W.-J., Shu, X.-W.*, Sheng, Z.-F.*, Sun, L.-M., **Jiang, N.***, et al. 2022, "Discovery of late-time X-ray flare and anomalous emission line enhancement after the nuclear optical outburst in a narrow-line Seyfert 1 Galaxy", *A&A*, **660**, 119.
14. Wang, Y.-B.*, **Jiang, N.***, Wang, T.-G.*, et al. 2022, "Discovery of ATLAS17jrp as an Optical-, X-Ray-, and Infrared-bright Tidal Disruption Event in a Star-forming Galaxy", *ApJL*, **930**, L4.
13. Wang, Y.-B.*, **Jiang, N.***, Wang, T.-G.*, et al. 2022, "Mid-Infrared Outbursts in Nearby Galaxies (MIRONG). II. Optical Spectroscopic Follow-up", *ApJS*, **258**, 21.
12. **Jiang, N.***, Wang, T.-G.*, Hu, X.-Y.*, et al. 2021, "Infrared Echoes of Optical Tidal Disruption Events: $\sim 1\%$ Dust-covering Factor or Less at Subparsec Scale", *ApJ*, **911**, 31.
11. **Jiang, N.***, Wang, T.-G.*, Dou, L.-M.*, et al. 2021, "Mid-Infrared Outbursts in Nearby Galaxies (MIRONG).I. Sample Selection and Characterization", *ApJS*, **252**, 32.
10. He, Z.-C.*, **Jiang, N.***, Wang, T.-G.*, et al. 2021, "An Extraordinary Response of Iron Emission to the Central Outburst in a Tidal Disruption Event Candidate", *ApJL*, **907**, L29.
9. Sun, L.-M.*, **Jiang, N.***, et al. 2020, "A Mid-infrared Flare in the Active Galaxy MCG-02-04-026: Dust Echo of a Nuclear Transient Event", *ApJ*, **898**, 129.
8. **Jiang, N.***, Wang, T.-G., Mou, G.-B., et al. 2019, "Infrared Echo and Late-stage Re-brightening of Nuclear Transient PS1-10adi: Exploring the Torus with Tidal Disruption Events in Active Galactic Nuclei", *ApJ*, **871**, 15.
7. **Jiang, N.***, Wang, T.-G.*, Zhou, H.-Y.*, et al. 2018, "Discovery of An Active Intermediate-Mass Black Hole Candidate in the Barred Bulgeless Galaxy NGC 3319", *ApJ*, **869**, 49.
6. **Jiang, N.***, Wang, T.-G.*, Yan, L.*, et al. 2017, "Mid-infrared flare of TDE candidate PS16dtm: dust echo and implications for the spectral evolution", *ApJ*, **850**, 63.
5. **Jiang, N.***, Wang, H.-Y.*, Mo, H.-J.*, et al. 2016, "Differences in Halo-Scale Environments between Type 1 and Type 2 AGNs at Low Redshift", *ApJ*, **832**, 111.
4. **Jiang, N.***, Dou, L.-M., Wang, T.-G., et al. 2016, "The WISE Detection of an Infrared Echo in Tidal Disruption Event ASASSN-14li", *ApJL*, **828**, L14.
3. Lian, J.-H.*, Kong, X.*, **Jiang, N.***, et al. 2015, "Surface brightness profiles of blue compact dwarf galaxies in the GOODS-N and GOODS-S field", *MNRAS*, **451**, 130.
2. **Jiang, N.***, Ho, L.C., Dong, X.-B., et al. 2013, "UM 625 Revisited: Multiwavelength Study of a Seyfert 1 Galaxy with a Low-mass Black Hole", *ApJ*, **770**, 3.
1. **Jiang, N.***, Zhou, H.-Y., Ho, L. C., et al. 2012, "Rapid Infrared Variability of Three Radio-loud Narrow-line Seyfert 1 Galaxies: A View from the Wide-field Infrared Survey Explorer", *ApJL*, **759**, L3.

Invited or non-refereed first-author publications

2. **Jiang, N.*** 2018, "Intraday Mid-infrared Variability of CTA 102 During Its 2016 Giant Outburst", *RNAAS*, 2, 134, non-refereed.
1. **Jiang, N.***, Wang, T.-G., Dou, L.-M. 2018, "Tidal disruption events and their echoes", *Physics*, 47(5):303-309, invited, Chinese.

Refereed publications with significant contributions (as 2nd, 3rd, 4th author)

18. Liao, N.-H., Sheng, Z.-F., **Jiang, N.**, et al. 2022, "GB6 J2113+1121: A Multiwavelength Flaring γ -Ray Blazar Temporally and Spatially Coincident with the Neutrino Event IceCube-191001A", *ApJL*, 932, L25.
17. Mou, G.-B., Dou, L.-M., **Jiang, N.**, et al. 2021, "Years Delayed X-ray Afterglows of TDEs Originated from Wind-Torus Interactions", *ApJ*, 908, 197.
16. Shu, X.-W., Zhang, W.-J., L, S., **Jiang, N.**, et al. 2020, "X-ray flares from the stellar tidal disruption by a candidate supermassive black hole binary", *Nature Communications*, 11, 5876.
15. Dai, B.-B., Shu, X.-W., **Jiang, N.**, et al. 2020, "Compact radio emission from nearby galaxies with mid-infrared nuclear outbursts", *ApJL*, 896, L27.
14. P. H. T. Tam, P. S. Pal, Y. D. Cui, **N. Jiang**, et al. 2020, "Multi-wavelength observations of the BL Lac object Fermi J1544-0649: one year after its awakening?", *Journal of High Energy Astrophysics*, 26, 45.
13. Sheng, Z.-F., Wang, T.-G., **Jiang, N.**, et al. 2020, "Initial results from a systematic search for changing-look active galactic nuclei selected via mid-infrared variability", *ApJ*, 889, 46.
12. Wang, T.-G.*, **Jiang, N.**, et al. 2019, "An On-going Mid-infrared Outburst in the White Dwarf 0145+234: Catching in Action of Tidal Disruption of an Exoasteroid?", *ApJL*, 886, 5.
11. Liao, N.-H., Dou, L.-M., **Jiang, N.**, et al. 2019, "Multi-wavelength Variability Properties of CGRaBS J0733+0456: Identifying a Distant gamma-ray blazar at $z=3.01$ ", *ApJL*, 879, L9.
10. Yan, L., Wang, T.-G., **Jiang, N.**, et al. 2019, "Rapid "Turn-on" of Type-1 AGN in a Quiescent Early-type Galaxy SDSS1115+0544", *ApJ*, 874, 44.
9. Wang, T.-G., Yan, L., Dou, L.-M., **Jiang, N.**, et al. 2018, "Long-Term Decline of the Mid-Infrared Emission of Normal Galaxies: Dust Echo of Tidal Disruption Flare?", *MNRAS*, 477, 2943.
8. Shu, X.-W., Wang, S., Dou, L.-M., **Jiang, N.**, et al. 2018, "A Long Decay of X-Ray Flux and Spectral Evolution in the Supersoft Active Galactic Nucleus GSN 069", *ApJL*, 857, L16.
7. Sheng, Z.-F., Wang, T.-G., **Jiang, N.**, et al. 2017, "Mid-infrared Variability of Changing-look AGNs", *ApJL*, 846, L7.
6. Dou, L.-M., Wang, T.-G., Yan, L., **Jiang, N.**, et al. 2017, "Discovery of a Mid-infrared Echo from the TDE candidate in the nucleus of ULIRG F01004-2237", *ApJL*, 841, L8.
5. Liu, W.-J., Qian, L., Dong, X.-B., **Jiang, N.**, et al. 2017, "A Ringed Dwarf LINER 1 Galaxy Hosting an Intermediate-mass Black Hole with Large-scale Rotation-like $H\alpha$ Emission", *ApJ*, 837, 109.

4. Shu, X.-W., Wang, T.-G., **Jiang, N.**, et al. 2017, "Central Engine and Host Galaxy of RXJ 1301.9+2747: A Multi-wavelength view of a Low-mass Black Hole Active Galactic Nuclei with Ultrasoft X-ray Emission", *ApJ*, **837**, 3.
3. Dou, L.-M., Wang, T.-G., **Jiang, N.**, et al. 2016, "Long Fading Mid-Infrared Emission in Transient Coronal Line Emitters: Dust Echo of Tidal Disruption Flare", *ApJ*, **832**, 188.
2. Liu, W.-J., Zhou, H.-Y., **Jiang, N.**, et al. 2016, "SDSS J163459.82+204936.0: A Ringed Infrared-luminous Quasar with Outflows in Both Absorption and Emission Lines", *ApJ*, **822**, 64.
1. Jiang, P., Zhou, H.-Y., Pan, X., **Jiang, N.**, et al. 2016, "Strong Ly α Emission in the Proximate Damped Ly α Absorption Trough toward the Quasar SDSS J095253.83+011422.0", *ApJ*, **821**, 1.

Selected Approved Proposals & Grants (as PI)

- 2022 **LCOGT 35 hour**, Continuous Daily Optical Monitoring of a SMBH Binary Candidate at its Last Inspiring Stage, TAP/NAOC2023A-0102, PI.
- 2022 **GEMINI/GMOS 4.5 hour**, Spectroscopic Monitoring of a SMBH Binary Candidate at its Last Inspiring Stage, GN-2023A-Q-110, PI.
- 2022 **LCOGT 20 hour**, Further Daily Optical Monitoring of an unprecedented SMBH Binary at its Last Inspiring Stage, TAP/NAOC2022B-002, PI.
- 2022 **XMM-Newton 5 \times 100ks**, ToO, **ObsID: 0910190101, 0910190701, 0910190901, 0910191101, 0910191301**, PI(proposer).
- 2022 **HST 5 orbits**, Exploring the Nature of the Recurring Flare in ULIRG F01004-2237 with UV spectroscopic Diagnosis, **Cycle 30, DDT (16943)**, PI.
- 2022 **LCOGT 14 hour**, Optical Monitoring of an unprecedented SMBH Binary Candidate at its Last Inspiring Stage, 2022A-003, DDT, PI.
- 2022 **Chandra 60ks**, Probing the X-rays from an unprecedented SMBH Binary at the Last Inspiring Stage, **cycle 23, DDT**, PI.
- 2022 **XMM-Newton 75ks**, ToO, **ObsID: 0893810201**, PI(proposer).
- 2021 **XMM-Newton 50ks**, ToO, **ObsID: 0893810401**, PI(proposer).
- 2021- **Swift >200ks**, ToO 16602, 16645, 16674, 16681, 16700, 16754, 16780, 16909, 17050, 17188, 17383, 17575, 17688, 18061, 18138, 18143, 18166, 18391, PI.
- 2020 **LCOGT/66 hour**, Prompt Optical Monitoring of Mid-infrared Outburst in Nearby Galaxies, 2021A, PI.
- 2020 **National Natural Science Foundation of China (12073025)**, Probing the pc-scale environment of supermassive black holes by infrared echoes, 2021.01-2024.12, PI, ¥610,000.
- 2020 **P200/DBSP 1 night**, Toward a Sample of Dusty TDEs without Missing Energy Selected by Ultra-luminous MIR Flares, 2020B, PI.
- 2019 **P200/CWI 1 night**, P200/CWI Observations of NGC 3319 and NGC 4178: Clues to the SMBH Seeds in Barred Bulgeless Galaxies, 2020A, PI.
- 2019 **P200/DBSP 2 nights**, Toward a Sample of Bona Fide Turn-on AGNs Selected by Mid-infrared Light Curves: Spectral Follow-up, 2019B, PI.
- 2018 **CFHT/WIRCam 9.6 hours**, NIR Imaging of Nearby Galaxies with MIR flares II: Further Monitoring and Completing the Sample, 2019A, PI.
- 2018 **CFHT/WIRCam 6.2 hours**, NIR Imaging of Nearby Galaxies with recent MIR flares: Characterizing Light curve and (sub)-pc Scale Dust, 2018B, PI.

2016 **National Natural Science Foundation of China (11603021)**, *Large scale environments of AGNs*, 2017.01-2019.12, PI, ¥220,000.

Talks (Selected, Recent)

- 2023/07 **"Infrared and Optical Study of Transient Accretion onto Supermassive Black Holes"**, *Workshop on MultiWavelength Study of Quasars and Active Galactic Nuclei*, Lijiang.
- 2023/03 **"The Opportunities and Challenges of Studying Tidal Disruption Events with 2.5-meter Wide Field Survey Telescope (WFST)"**, *NAOC and Caltech Bilateral Workshop on Transient Science and Follow-up Observations*, online.
- 2022/09 **"Discovery and follow-ups of an unprecedented SMBH Binary candidate approaching final merger"**, *The 2nd Donglu Astrophysics Forum*, Yunnan University, Kunming (online).
- 2022/08 **"EM Counterparts for GW sources in Active Galactic Nuclei in the Era of Time-domain Astronomy"**, *TianQin Astro Workshop*, Sun Yat-sen University, Zhuhai (online).
- 2022/06 **"Discovery and Follow-ups of a SMBH binary candidate predicted to merge within three years"**, *The 60th Anniversary of X-Ray Astronomy: X-ray Astronomy in the Time-domain & Multi-messenger Era*, Beijing (online).
- 2021/12 **"Unveiling the dynamic IR sky: A Journey from Missing Tidal Disruption Events"**, *2021 TAP workshop*, Beijing (online).
- 2021/12 **"Recent progresses on tidal disruption events and other transient accretion onto SMBHs"(invited talk)**, *Chinese Astronomical Society Annual Meeting*, Nan-chong (online).
- 2021/06 **"Infrared echoes of Tidal Disruption Events"**, *KIAA colloquium*, Peking University.
- 2021/04 **"Mid-Infrared Outburst in Nearby Galaxies (MIRONG): missing TDEs?"**, *Workshop on tidal disruption events*, Hangzhou.
- 2020/10 **"Infrared echoes of Tidal Disruption Events"**, *XMU colloquium*, Xiamen University.
- 2019/11 **"Exploring the Dusty Torus by the Infrared Echo of Outburst in AGNs"**, *X-Ray High-Energy Astrophysical Phenomena and Physical Processes*, Shexian.
- 2019/09 **"Pc-scale dust around SMBHs revealed by IR echoes of Tidal Disruption Events"**, *Mapping Central Regions of Active Galactic Nuclei*, Guilin.