

Ning Jiang

Room C-1010-4, Teaching and Research Building of Material
Science
96 Jinzhai Road, Hefei, Anhui, China, 230026

Univ. of Sci. & Tech. of China
Research Associate
[Personal Homepage](#)

+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

- 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 (2019-).
Space Science Reviews (2020-).

The Astrophysical Journal (2021-).

Chinese Science Bulletin (2022-).

**Correspondence
Reviewer**

National Natural Science Foundation of China (NSFC, 2021-).

Press Release or Highlights

- 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](#): 51 refereed (9 as 1st author, 6 as 2nd author, 11 as 3rd author, 7 as 4th author, 18 as others), 1 invited and 1 non-refereed (RNAAS) publications. Total citations >700, h-index=15.

Major refereed publications (as 1st or corresponding author*, with >200 citations)

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 $Ly\alpha$ Emission in the Proximate Damped $Ly\alpha$ Absorption Trough toward the Quasar SDSS J095253.83+011422.0", *ApJ*, **821**, 1.

Selected Approved Proposals & Grants (as PI)

- 2022 **XMM-Newton 5×100ks**, ToO, ObsID: 0910190101, 0910190701, 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, 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.
- 2017 **USTC Youth Innovation Fund**, *Spectral follow-ups of tidal disruption event candidates selected by dust echoes*, 2018.01-2019.12, PI, ¥100,000.
- 2016 **National Natural Science Foundation of China (11603021)**, *Large scale environments of AGNs*, 2017.01-2019.12, PI, ¥220,000.