

## Asst. Prof. Can GÜNGÖR

### Personal Information

**Office Phone:** +90 212 440 0000 Extension: 10667

**Email:** gungor.can@istanbul.edu.tr

**Web:** <http://aves.istanbul.edu.tr/gungor.can/>

**Address:** İstanbul Üniversitesi Fen Fakültesi Astronomi ve Uzay Bilimleri Bölümü 34119 Beyazıt, Fatih - İSTANBUL

### International Researcher IDs

ORCID: 0000-0003-3791-3754

Publons / Web Of Science ResearcherID: AAC-6802-2019

ScopusID: 55931033600

Yoksis Researcher ID: 26946

### Education Information

Post Doctorate, Sabanci University, Faculty Of Engineering And Natural Sciences, Fizik Bölümü, Turkey 2019 - 2020

Post Doctorate, Institute Of High Energy Physics, Astrophysics Division, Science Team Of Insight-Hard X-Ray Modulation Telescope, China 2017 - 2019

Post Doctorate, Sabanci University, Faculty Of Engineering And Natural Sciences, Fizik Bölümü, Turkey 2016 - 2017

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Fizik Mühendisliği Anabilim Dalı, Turkey 2009 - 2016

Postgraduate, Ege University, Fen Bilimleri Enstitüsü, Astronomi Ve Uzay Bilimleri Anabilim Dalı, Turkey 2006 - 2009

Undergraduate, Ege University, Faculty Of Science, Astronomi Ve Uzay Bilimleri Bölümü, Turkey 1999 - 2006

### Foreign Languages

English, C2 Mastery

### Dissertations

Doctorate, An observational study of accreting millisecond x-ray pulsars: from accretion to the rotation powered stages, Istanbul Technical University, Fen-Edebiyat, Fizik Mühendisliği, 2016

Postgraduate, Küçük kütleli yıldızların fiziksel özellikleri, Ege University, Fen Bilimleri Enstitüsü, Astronomi Ve Uzay Bilimleri Anabilim Dalı, 2009

### Research Areas

Physics, Astronomy and Astrophysics, Astronomy and Astrophysics: Instrumentation Techniques and Observations, Stars, Natural Sciences

### Academic Titles / Tasks

Assistant Professor, Istanbul University, Faculty of Science, Astronomy and Space Sciences, 2020 - Continues

Research Assistant, Istanbul Technical University, Fen-Edebiyat Fakültesi, Fizik Mühendisliği, 2013 - 2016

## Academic and Administrative Experience

Uygulama ve Araştırma Merkezi Yönetim Kurulu Üyesi, Istanbul University, Faculty Of Science, Astronomy And Space Sciences, 2022 - Continues

## Courses

Physics IV, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021

OBSERVATIONAL INSTRUMENTS AND METHODS IN ASTRONOMY, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021

NUMERICAL TECHNIQUES IN ASTRONOMY, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021

Physics IV, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021

ACCRETION PHENOMENA IN ASTROPHYSICS, Doctorate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021

OBSERVATIONAL INSTRUMENTS AND METHODS IN ASTRONOMY, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021

ELEKTROMAGNETİK TEORİ, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021

ELEKTROMAGNETİK TEORİ, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021

X VE GAMA IŞINLARINDA GÖZLEM VE VERİ ANALİZİ TEKNİKLERİ, Postgraduate, 2021 - 2022, 2020 - 2021

STATISTICAL METHODS IN ASTROPHYSICS AND R APPLICATIONS, Doctorate, 2022 - 2023, 2021 - 2022, 2020 - 2021

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Bursts from High-magnetic-field Pulsars Swift J1818.0-1607 and PSR J1846.4-0258**  
Uzuner M., Keskin Ö., Kaneko Y., Göğüş E., Roberts O. J., Lin L., Baring M. G., GÜNGÖR C., Kouveliotou C., van der Horst A. J., et al.  
Astrophysical Journal, vol.942, no.1, 2023 (SCI-Expanded)
- II. **The Evolution of the Broadband Temporal Features Observed in the Black-hole Transient MAXI J1820+070 with Insight-HXMT**  
Wang Y., Ji L., Zhang S. N., Mendez M., Qu J. L., Maggi P., Ge M. Y., Qiao E., Tao L., Zhang S., et al.  
ASTROPHYSICAL JOURNAL, vol.896, no.1, 2020 (SCI-Expanded)
- III. **Discovery of Delayed Spin-up Behavior Following Two Large Glitches in the Crab Pulsar, and the Statistics of Such Processes**  
Ge M. Y., Zhang S. N., Lu F. J., Li T. P., Yuan J. P., Zheng X. P., Huang Y., Zheng S. J., Chen Y. P., Chang Z., et al.  
ASTROPHYSICAL JOURNAL, vol.896, no.1, 2020 (SCI-Expanded)
- IV. **Diagnostic of the spectral properties of Aquila X-1 by Insight-HXMT snapshots during the early propeller phase**  
Gungor C., Ge M. Y., Zhang S., Santangelo A., Zhang S. N., Lu F. J., Zhang Y., Chen Y. P., Tao L., Yang Y. J., et al.  
JOURNAL OF HIGH ENERGY ASTROPHYSICS, vol.25, pp.10-16, 2020 (SCI-Expanded)
- V. **Overview to the Hard X-ray Modulation Telescope (Insight-HXMT) Satellite**  
Zhang S., Li T., Lu F., Song L., Xu Y., Liu C., Chen Y., Cao X., Bu Q., Chang Z., et al.  
SCIENCE CHINA-PHYSICS MECHANICS & ASTRONOMY, vol.63, no.4, 2020 (SCI-Expanded)
- VI. **Timing analysis of 2S 1417-624 observed with NICER and Insight-HXMT**  
Ji L., Doroshenko V., Santangelo A., Gungor C., Zhang S., Ducci L., Zhang S., Ge M., Qu L. J., Chen Y. P., et al.  
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY, vol.491, no.2, pp.1851-1856, 2020 (SCI-Expanded)
- VII. **X-Ray Spectral Evolution of PSR J2032+4127 during the 2017 Periastron Passage**  
PAL P. S., TAM P. H. T., CUI Y., LI K. L., Kong A. K. H., Gungor C.  
ASTROPHYSICAL JOURNAL, vol.882, no.1, 2019 (SCI-Expanded)
- VIII. **In-orbit Demonstration of X-Ray Pulsar Navigation with the Insight-HXMT Satellite**  
Zheng S. J., Zhang S. N., Lu F. J., Wang W. B., Gao Y., Li T. P., Song L. M., Ge M. Y., Han D. W., Chen Y., et al.

ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES, vol.244, no.1, 2019 (SCI-Expanded)

- IX. **Constant cyclotron line energy in Hercules X-1 - Joint Insight-HXMT and NuSTAR observations**  
Xiao G. C., Ji L., Staubert R., Ge M. Y., Zhang S., Zhang S. N., Santangelo A., Ducci L., Liao J. Y., Guo C. C., et al.  
JOURNAL OF HIGH ENERGY ASTROPHYSICS, vol.23, pp.29-32, 2019 (SCI-Expanded)
- X. **Insight-HXMT Observations of Swift J0243.6+6124 during Its 2017-2018 Outburst**  
Zhang Y., Ge M., Song L., Zhang S., Qu J., Zhang S., Doroshenko V., Tao L., Ji L., Gungor C., et al.  
ASTROPHYSICAL JOURNAL, vol.879, no.1, 2019 (SCI-Expanded)
- XI. **Dense matter with eXTP**  
WATTS A. L., YU W., Poutanen J., ZHANG S., BHATTACHARYYA S., Bogdanov S., Ji L., PATRUNO A., RILEY T. E., BAKALA P., et al.  
SCIENCE CHINA-PHYSICS MECHANICS & ASTRONOMY, vol.62, no.2, 2019 (SCI-Expanded)
- XII. **Physics and astrophysics of strong magnetic field systems with eXTP**  
SANTANGELO A., Zane S., FENG H., XU R., DOROSHENKO V., BOZZO E., Caiazzo I., ZELATI F. C., ESPOSITO P., Gonzalez-Caniulef D., et al.  
SCIENCE CHINA-PHYSICS MECHANICS & ASTRONOMY, vol.62, no.2, 2019 (SCI-Expanded)
- XIII. **Swift observations of the bright uncatalogued X-ray transient MAXI J1535-571**  
TAO L., CHEN Y., Gungor C., HUANG Y., LU F., QU J., SONG L., ZHANG L., ZHANG S., ZHANG S.  
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY, vol.480, no.4, pp.4443-4454, 2018 (SCI-Expanded)
- XIV. **INSIGHT-HXMT Observations of the New Black Hole Candidate MAXI J1535-571: Timing Analysis**  
Huang Y., Qu J. L., Zhang S. N., Bu Q. C., Chen Y. P., Tao L., Zhang S., Lu F. J., Li T. P., Song L. M., et al.  
ASTROPHYSICAL JOURNAL, vol.866, no.2, 2018 (SCI-Expanded)
- XV. **Partial Accretion in the Propeller Stage of Low-mass X-Ray Binary Aql X-1**  
Güngör C., Ekşi K. Y., Gogus E., Guver T.  
ASTROPHYSICAL JOURNAL, vol.848, no.1, 2017 (SCI-Expanded)
- XVI. **On the morphology of outbursts of accreting millisecond X-ray pulsar Aquila X-1**  
Gungor C., Ekşi K. Y., Gogus E.  
NEW ASTRONOMY, vol.56, pp.1-4, 2017 (SCI-Expanded)
- XVII. **The ultraluminous X-ray source NuSTAR J095551+6940.8: a magnetar in a high-mass X-ray binary**  
Ekşi K. Y., Andaç İ. C., Çıkmışoğlu S., Gencali A. A., Güngör C., Öztekin F.  
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY, vol.448, no.1, 2015 (SCI-Expanded)
- XVIII. **Classification and spectral evolution of outbursts of Aql X-1**  
Gungor C., Guver T., Ekşi K. Y.  
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY, vol.439, no.3, pp.2717-2727, 2014 (SCI-Expanded)
- XIX. **What does a measurement of mass and/or radius of a neutron star constrain: Equation of state or gravity?**  
Ekşi K. Y., Gungor C., Turkoglu M. M.  
PHYSICAL REVIEW D, vol.89, no.6, 2014 (SCI-Expanded)
- XX. **Neutron stars in a perturbative  $f(R)$  gravity model with strong magnetic fields**  
CHEOUN M., Deliduman C., Gungor C., Keles V., RYU C. Y., KAJINO T., MATHEWS G. J.  
JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS, no.10, 2013 (SCI-Expanded)
- XXI. **A new low-mass eclipsing binary: NSVS 02502726**  
Çakırh O., İbanoglu C., Gungor C.  
NEW ASTRONOMY, vol.14, no.5, pp.496-502, 2009 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Yerel Sunucularda RXTE, XMM-Newton ve SWIFT Verisine Erişim ve Veri Yönetimi Programı**  
GÜNGÖR C., Duran H. M., Sağlam M. T.  
Veri Bilimi, vol.5, no.1, pp.45-52, 2022 (Peer-Reviewed Journal)
- II. **Optical observations of Aql X-1**

GÜVER T., AK T., EKŞİ K. Y., GÜNGÖR C.

The Astronomer's Telegram, no.5129, 2013 (Non Peer-Reviewed Journal)

III. **CCD Photometry of Asteroid 22 Kalliope**

GÜNGÖR C.

The Minor Planet Bulletin, vol.34, no.3, 2007 (Peer-Reviewed Journal)

IV. **New Times of Minima of Some Eclipsing Binary Stars**

ÇAKIRLI Ö., GÜNGÖR C., akbulut p., çamurdan m.

INFORMATION BULLETIN ON VARIABLE STARS, vol.5729, no.1, 2006 (Peer-Reviewed Journal)

V. **Times of Minima for Some Eclipsing Binaries**

TAŞ G., SİPAHİ E., DAL H. A., GÖKER Ü. D., ÖZDARCAN O., GÜNGÖR C., EVREN M. S., uğrak e., yiğen s., topçu a. t., et al.

INFORMATION BULLETIN ON VARIABLE STARS, vol.5548, no.1, 2004 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

I. **A Systematic Pulse Scan for Intermittent-AMXPs via  $Z^2$  and Maximum Likelihood Techniques**

SAĞLAM M. T., GÜNGÖR C.

The X-ray Universe 2023, Atina, Greece, 13 - 16 June 2023

II. **A Detailed Spectral Study of Intermittent-AMXPs; Aql X-1 & SAX J1748.9-2021 during Pulse-on and Pulse-off Stages**

GÜNGÖR C., SAĞLAM M. T., KOCABIYIK T.

The X-ray Universe 2023, Atina, Greece, 13 - 16 June 2023

III. **Geçici Milisaniye X-ışın Pulsarlarında Atma Görülen/Görülme Zamanlarının Spektral Olarak İncelenmesi**

KOCABIYIK T., GÜNGÖR C., Sağlam M. T.

22. Ulusal Astronomi Kongresi, İzmir, Turkey, 6 - 08 September 2022

IV. **Düşük Kütleli X-ışını Çiftlerinin Zaman Analizi Yöntemleri**

Sağlam M. T., GÜNGÖR C.

22. Ulusal Astronomi Kongresi, İzmir, Turkey, 6 November - 08 September 2022

V. **Yerel Sunucularda RXTE, XMM-Newton ve SWIFT Verisine Erişim ve Veri Yönetimi Programı**

Sağlam M. T., GÜNGÖR C., Duran H. M.

22. Ulusal Astronomi Kongresi, İzmir, Turkey, 6 - 08 September 2022

VI. **DISCREPANCIES IN THE SPECTRA OF THE PULSE-ON AND THE PULSEOFF STAGES OF INTERMITTENT ACCRETING MILLISECOND X-RAY PULSARS**

GÜNGÖR C., KOCABIYIK T., Sağlam M. T.

44th COSPAR Scientific Assembly, Atina, Greece, 16 July 2022

VII. **Temporal Properties of Accreting Millisecond X-ray Pulsars via Maximum Likelihood Technique**

GÜNGÖR C., Sağlam M. T.

44th COSPAR Scientific Assembly, Atina, Greece, 16 - 24 July 2022

VIII. **Düşük kütleli X-ışın Çiftlerinde Atma Gözlenmeme Sebebi Compton Saçılması mı?**

GÜNGÖR C.

Yüksek Enerji Fiziği, Astrofizik ve Kozmoloji Çalıştayı, İstanbul, Turkey, 30 - 31 January 2019, pp.1

IX. **Aql X-1'in Tayfsal Özelliklerinin Insight-HXMT Gözlemleriyle İncelenmesi**

GÜNGÖR C.

Yüksek Enerji Fiziği, Astrofizik ve Kozmoloji Çalıştayı, İstanbul, Turkey, 30 - 31 January 2019, pp.1

X. **Partial Accretion in the Propeller Stage of Aql X-1**

GÜNGÖR C.

Burst Environment, Reactions and Numerical Modelling Workshop 2018, Prato, Italy, 11 - 15 June 2018, pp.1

XI. **Aquila X-1 in outburst**

GÜNGÖR C., GOGUS E., GÜVER T., EKŞİ K. Y.

European Week of Astronomy and Space Science, Turku, Finland, 4 - 08 July 2016, pp.1

- XII. **Partial accretion in the propeller stage of accreting millisecond x-ray pulsars**  
GÜNGÖR C., EKSI K. Y., GOGUS E., GÜVER T.  
European Week of Astronomy and Space Science, Atina, Greece, 4 - 08 July 2016, pp.1
- XIII. **What does a measurement of mass and or radius of a neutron star constrain Equation of state or gravity**  
TURKOGLU M. M., GÜNGÖR C., EKSI K. Y.  
40th COSPAR Scientific Assembly, Moskova, Russia, 2 - 10 August 2014, pp.1
- XIV. **Classification and spectral evolution of outbursts of Aql X 1**  
GÜNGÖR C., EKSI K. Y., TURKOGLU M. M.  
40th COSPAR Scientific Assembly, Moskova, Russia, 2 - 10 August 2014, pp.1
- XV. **Possible Ambiguities in the Equation of state for Neutron Stars**  
CHEOUN M., MIYATSU T., RYU C. Y., Deliclumani C., Gungor C., Keles V., KAJINO T., Mathews G. J.  
12th International Symposium on Origin of Matter and Evolution of Galaxies (OMEG), Tsukuba, Japan, 18 - 21 November 2013, vol.1594, pp.414-419

## Supported Projects

TUBITAK Project, Fermi/Gbm Verileri Ile Tetiklenmemiş Geçici Gama Işını Olaylarının Derinlemesine Araştırılması Ve İncelenmesi, 2019 - 2020  
TUBITAK Project, Magnetarların Uzun Evre X-Işını Emisyon Özelliklerinin İncelenmesi, 2017 - 2017  
GÜVER T., TUBITAK Project, Nötron Yıldızı-Disk Etkileşiminin Kipleri, 2012 - 2015  
TUBITAK Project, Genel Görecelik Ve Alternatif Gravitasyon Kuramlarının Astrofiziksel Sınanması, 2010 - 2012  
TUBITAK Project, Küçük Kütleli Örtün Çift Yıldızların Işıkolçüm Ve Tayfsal Gözlemleri, 2008 - 2009

## Metrics

Publication: 41  
Citation (WoS): 264  
Citation (Scopus): 284  
H-Index (WoS): 9  
H-Index (Scopus): 9

## Scholarships

2214-A Yurt Dışı Araştırma Burs Programı, TUBITAK, 2015 - 2016

## Awards

Güngör C., Science Academy's Young Scientist Awards Program , Bilim Akademisi, April 2021