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EDUCATION & DEGREES

May 2002 Doctor of Philosophy (Physics) University of Alabama in Huntsville & NASA/Marshall Space Flight Center, USA, Dissertation title: Observational Studies of Soft Gamma Repeater Bursts

Feb 1997 Master of Science (Physics) METU, Ankara, Thesis title: Spectral & Timing Analysis of Cataclysmic Variables

Jun 1994 Bachelor of Science (Physics) METU, Ankara

RESEARCH EXPERIENCE & EMPLOYEMENT

October 2005 – present: Faculty Member
Sabancı University, Istanbul TURKEY

April 2003 – September 2005: Post-doc Research Associate
Sabancı University, Istanbul TURKEY

May 2002 – Mar 2003 & Feb 2005–May 2005: Research Scientist
National Space Science Technology Center, Huntsville, USA

Aug 1997 – May 2002: Research Assistant
NASA Marshall Space Flight Center, Huntsville, USA

AWARDS

FABED Eser Tümen Outstanding Achievement Award (2012)

Scientific and Technological Research Council of Turkey (TÜBİTAK) Incentive Award (2008)

Turkish Academy of Sciences, Successful Young Scientists Award (TÜBA-GEBİP 2004)

TEACHING EXPERIENCE – COURSES THOUGHT

MATH 306 Statistical Modelling
NS 101 Science of Nature I
NS 102 Science of Nature II
NS 200 Einstein’s Relativity
NS 206 What is there in the Universe? Inside the Milky Way
NS 209 What is there in the Universe? Beyond the Milky Way
NS 222 Planetary Systems and Extrasolar Planets
PHYS 303 Quantum Mechanics I
PHYS 412 Statistical Mechanics
PHYS 561 High Energy Astrophysics

IMPACT OF THE PUBLICATIONS

Number of papers listed in the Science Citation Index:	124
Number of citations:	2994
Number of citations without self-citations:	2595
Number of citations per item:	24.15
h-index:	31

(Data retrieved from Web of Science on 2020 October 19)

LIST OF REFEREED PUBLICATIONS

Boztepe, T.; Göğüş, E.; Güver, T.; Schwenzer, K. (2020) Strengthening the bounds on the r-mode amplitude with X-ray observations of millisecond pulsars. *MNRAS*, 498, 2734

Yamasaki, S.; Lyubarsky, Y.; Granot, J.; Göğüş, E. (2020) Spectral modification of magnetar flares by resonant cyclotron scattering. *MNRAS*, 498, 484

Lin, L, **Göğüş, E.**, Roberts, O., et al. (2020) Burst Properties of the Most Recurring Transient Magnetar SGR J1935+2154. *Astrophysical Journal*, **893**, 156

Gorgone, N. M.; Kouveliotou, C.; Negoro, H.; Wijers, R. A. M. J.; Bozzo, E.; Guiriec, S.; Bult, P.; Huppenkothen, D.; Göğüş, E., et al. (2019) Discovery and Identification of MAXI J1621-501 as a Type I X-Ray Burster with a Super-orbital Period. *Astrophysical Journal*, **884**, 168

Güver, T.; **Göğüş, E.**, et al. (2019) NICER Observations of the 2018 Outburst of XTE J1810-197. *Astrophysical Journal Letters*, **877**, 30

Sonbas, E.; Dhuga, K. S.; **Göğüş, E.** (2019) Evidence of an X-Ray-Ultraviolet Spectral Correlation in Ultraluminous X-Ray Sources. *Astrophysical Journal*, **873**, 12

Vurgun, E.; Chakraborty, M.; Güver, T.; **Göğüş, E.** (2019) Variable absorption line in XTE J1810-197. *New Astronomy*, **67**, 45

Sonbas, E.; Dhuga, K. S.; Göğüş, E. (2018) The Bright X-Ray Source in NGC 3413. *Astrophysical Journal*, **865**, 158

Sonbas, E., Dhuga, K. **Göğüş, E. (2018)** A Study of Low-mass X-Ray Binaries in the Low-luminosity Regime. *Astrophysical Journal*, **853**, 150

Chakraborty, M., Bahar, Y.E. **Göğüş, E. (2017)** Time- and Energy-dependent Characteristics of Thermonuclear Burst Oscillations. *Astrophysical Journal*, **851**, 79

Younes, G., Baring, M. G., Kouveliotou, C., Harding, A., Donovan, S., **Göğüş, E.**, Kaspi, V., Granot, J. (2017) The Sleeping Monster: NuSTAR Observations of SGR 1806-20, 11 Years After the Giant Flare. *Astrophysical Journal*, **851**, 17

Gelfand, J. D., Ransom, S., Kouveliotou, C., Granot, J., van der Horst, A. J., Zhang, G., Göğüş, E., Roberts, M. S. E., Ali, H.A. (2017) The High-frequency Radio Emission of the Galactic Center Magnetar SGR J1745-29 during a Transitional Period. *Astrophysical Journal*, **850**, 53

Güngör, C., Ekşi, K. Y., **Göğüş, E.**, Güver, T. (2017) Partial Accretion in the Propeller Stage of Low-mass X-Ray Binary Aql X-1. *Astrophysical Journal*, **848**, 13

Younes, G., Kouveliotou, C., Jaodand, A., Baring, M. G., van der Horst, A. J., Harding, A. K., Hessels, J. W. T., Gehrels, N., Gill, R., Huppenkothen, D., Granot, J., **Göğüş, E.**, Lin, L. (2017) X-Ray and Radio Observations of the Magnetar SGR J1935+2154 during Its 2014, 2015, and 2016 Outbursts. *Astrophysical Journal*, **847**, 85

Göğüş, E., Lin, L., Roberts, O. J., Chakraborty, M., Kaneko, Y., Gill, R., Granot, J. et al. (2017) Burst and Outburst Characteristics of Magnetar 4U 0142+61. *Astrophysical Journal*, **835**, 68

Kırmızıbayrak, D., Şaşmaz Muş, S., Kaneko, Y., Göğüş, E. (2017) Broadband Spectral Investigations of Magnetar Bursts. *Astrophysical Journal Supplements*, **232**, 17

Güngör, C., Ekşi, K. Y., **Göğüş, E. (2017)** On the morphology of outbursts of accreting millisecond X-ray pulsar Aquila X-1. *New Astronomy*, **56**, 1

Huppenkothen, D., Younes, G., Ingram, A., Kouveliotou, C., **Göğüş, E.** et al. (2017) Detection of Very Low-frequency, Quasi-periodic Oscillations in the 2015 Outburst of V404 Cygni. *Astrophysical Journal*, **834**, 90

Göğüş, E., Lin, L., Kaneko, Y., Kouveliotou, C., Watts, A. L., Chakraborty, M., Alpar, M. A., Huppenkothen, D., Roberts, O. J., Younes, G., van der Horst, A. J. (2016) Magnetar-like X-Ray Bursts from a Rotation-powered Pulsar, PSR J1119-6127. *Astrophysical Journal Let.*, **829**, L25

Younes, G., Kouveliotou, C., Kargaltsev, O., Gill, R., Granot, J., Watts, A. L., Gelfand, J., Baring, M. G., Harding, A., Pavlov, G. G., van der Horst, A. J., Huppenkothen, D., **Göğüş, E.** et al. (2016) The Wind Nebula around Magnetar Swift J1834.9-0846. *Astrophysical Journal*, **824**, 138

Chakraborty, M., **Göğüş, E.**, Şaşmaz Muş, S., Kaneko, Y. (2016) Variation of Spectral and Timing Properties in the Extended Burst Tails from the Magnetar 4U 0142+61. *ApJ*, **819**, 153

- Weng, Shan-S, **Göğüş, E. (2015)** Broadband X-Ray Spectral Investigations of Magnetars, 4U 0142+61, 1E 1841-045, 1E 2259+586, & 1E 1048.1-5937. *Astrophysical Journal*, **815**, 15
- Kaneko, Y., Bostancı, Z. F., **Göğüş, E.**, Lin, L. (2015) Short gamma-ray bursts with extended emission observed with Swift/BAT and Fermi/GBM. *MNRAS*, **452**, 824
- Raetz, St., Maciejewski, G., Seeliger, M., Marka, C., Fernández, M., Güver, T., **Göğüş, E.** et al. (2015) WASP-14 b: transit timing analysis of 19 light curves. *MNRAS*, **451**, 4139
- Seeliger, M., Kitze, M., Errmann, R., Richter, S., Ohlert, J. M., Chen, W. P., Guo, J. K., **Göğüş, E.** et al. (2015) Ground-based transit observations of the HAT-P-18, HAT-P-19, HAT-P-27/WASP40 and WASP-21 systems. *MNRAS*, **451**, 4060
- Chakraborty, M., **Göğüş, E. (2015)** An Extraordinary Outburst of the Magnetar Swift J1822.3-1606. *Astrophysical Journal*, **809**, 152
- Şaşmaz Muş, S., **Göğüş, E.**, Kaneko, Y., Chakraborty, M., Aydın, B. (2015) Burst Tails from SGR J1550-5418 Observed with the Rossi X-Ray Timing Explorer. *Astrophysical Journal*, **807**, 42
- Collazzi, A. C., Kouveliotou, C., van der Horst, A. J., Younes, G. A., Kaneko, Y., **Göğüş, E.** et al. (2015) The Five Year Fermi/GBM Magnetar Burst Catalog. *ApJS*, **218**, 11
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- Şaşmaz Muş, S., Aydın, B. & **Göğüş, E. (2014)** A glitch and an anti-glitch in the anomalous X-ray pulsar 1E 1841-045. *MNRAS*, **440**, 2916

Huppenkothen, D., D'Angelo, C., Watts, A. L., Heil, L., van der Klis, M., van der Horst, A. J., Kouveliotou, C., Baring, M. G., **Göğüş, E.**, et al. (2014) Quasi-periodic Oscillations in Short Recurring Bursts of the Soft Gamma Repeater J1550-5418. *Astrophysical Journal*, **787**, 128

Younes, G., Kouveliotou, C., van der Horst, A. J., Baring, M. G., Granot, J., Watts, A. L., Bhat, P. N., Collazzi, A., Gehrels, N., Gorgone, N., **Göğüş, E.**, et al. (2014) Time Resolved Spectroscopy of SGR J1550-5418 Bursts Detected with Fermi/Gamma-Ray Burst Monitor. *ApJ*, **785**, 52

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Şaşmaz Muş, S. & **Göğüş, E.** (2013) Long-term Timing and Glitch Characteristics of Anomalous X-Ray Pulsar 1RXS J170849.0–400910. *Astrophysical Journal*, **778**, 156

Lin, L., **Göğüş, E.**, Kaneko, Y. & Kouveliotou, C. (2013) Detailed Investigations of the Dimmest Bursts from Two Magnetars, SGR J0501+4516 & SGR J1550–5418. *ApJ*, **778**, 105

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Younes, G., Kouveliotou, C., Kargaltsev, O., Pavlov, G. G., **Göğüş, E.**, Wachter, S. (2012) XMM-Newton View of Swift J1834.9-0846 and Its Magnetar Wind Nebula. *ApJ*, **757**, 39

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van der Horst, A. J., Kouveliotou, C., Gorgone, N. M., Kaneko, Y., Baring, M. G., Guiriec, S., **Göğüş, E.**, Granot, J. et al. (2012) SGR J1550-5418 Bursts Detected with the Fermi Gamma-Ray Burst Monitor during its Most Prolific Activity. *ApJ*, **749**, 122

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Lin, L., Kouveliotou, C., **Göğüş, E.**, van der Horst, A. J., Watts, A. L. et al. (2011) Burst and Persistent Emission Properties during the Recent Active Episode of the Anomalous X-Ray Pulsar 1E 1841-045. *ApJ*, **740**, L16

Güver, T., **Göğüş, E.**, Özel, F. (2011) A Magnetar Strength Surface Magnetic Field for the Slowly Spinning Down SGR 0418+5729. *MNRAS*, **418**, 2773

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Rykoff, E. S., Aharonian, F., Akerlof, C. W., Ashley, M. C. B., Barthelmy, S. D., Flewelling, H. A., Gehrels, N., **Göğüş, E.** et al. (2009) Looking Into the Fireball: ROTSE-III and Swift Observations of Early Gamma-ray Burst Afterglows. *ApJ*, **702**, 489

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Yost, S. A., Swan, H. F., Rykoff, E. S., Aharonian, F., Akerlof, C. W., Alday, A., Ashley, M. C. B., Barthelmy, S., Burrows, D., Depoy, D. L., Dufour, R. J., Eastman, J. D., Forgey, R. D., Gehrels, N., **Göğüş, E.** et al. (2007) Exploring Broadband GRB Behavior during γ -Ray Emission. *ApJ*, **657**, 925

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PROJECTS & GRANTS

TÜBİTAK MFAG Research Grant, 'Long Term X-Ray Emission Properties Of Magnetars', May 2016 – September 2018, Principle Investigator

TÜBİTAK MFAG Research Grant, 'Search For Spin Periods Of Neutron Star In Low Mass X-Ray Binaries', October 2015 – October 2018, Principle Investigator

TÜBİTAK TBAG Research Grant, 'Investigations of Broadband Spectral Properties of Gamma Ray Bursts', May 2010 – May 2013, Principle Investigator

TÜBİTAK Career Development Research Grant, 'Broadband Timing Investigations of Highly Magnetized Neutron Stars', May 2006 – May 2009, Principle Investigator

EC FP6 Transfer of Knowledge Project, 'Astrophysics of Neutron Stars', December 2006 – December 2010, Co-investigator

TÜBİTAK Science and Society Activity Grant, 'Astronomy in Science Education', September 2008 – September 2009, Principle Investigator

PROFESSIONAL SERVICES

- Executive Board Member, TÜBİTAK Fundamental Science Research Institute, 2019 –
- Academic Board Member, TÜBİTAK National Observatory, 2020 –

- Adviser, TÜBİTAK ARDEB TBAG & MFAG, 2010 – 2014
- Executive Board Member, TÜBİTAK National Observatory, 2006 – 2010

MAJOR OBSERVATIONAL INVESTIGATIONS

- 2017 – 2018: Co-Investigator
Swift Key Program, ‘Swift Deep Galactic Plane Survey’
- 2016 – 2017: Principle Investigator
XMM-Newton AO15 Proposal, ‘Mapping the Emission Structure of the Brightest Magnetar, 1E 1841–045’
- 2005 – 2011: Principle Investigator
RXTE Core Program, “ToO Observations of SGRs”
- 2004 – 2007: Co – Investigator
RXTE AO11 Proposal, “Observations of XTE J1810 – 197”
- 2003 – present: Co – Investigator
Chandra X-ray Observatory, “Chandra Observations of SGRs”
- 1999 – 2011: Co – Investigator
RXTE AO4 through AO14 Proposals, “Monitoring Spin Properties of SGRs”
- 2003 – 2004: Co – Investigator
XMM-Newton AO2 Proposal, “XMM-Newton Observations of Magnetars”
- 2001 – 2004: Co – Investigator
Chandra AO2, AO3 Proposals, “Cooling Trend in SGR 1627 – 41”
- 2000 – 2001: Co – Investigator
Chandra AO1 Proposal, “Chandra Observations of AXPs”

International Astronomical Union Circulars, Astronomer’s Telegrams & Gamma Ray Burst Coordinates Network Circulars:

Lead author or co-author of more than 100 GCN Circulars

Lead author or co-author of 23 Astronomer’s Telegrams

Co-author of 1 International Astronomical Union Circular

EDUCATION AND PUBLIC OUTREACH

- Co-organizer, “Köşe Bucak Gökyüzü” – A series of four workshops for candidate science teachers on astronomy in education, February – April 2011.
- Editor, Monthly Bulletin of the Turkish Astronomers Society, August 2008 – December 2010.

- Author of an article titled “**Bilim Eğitiminde Astronomi: Bugün ve Gelecek**” published September 2010 issue of GÜNCE, the magazine of Turkish Academy of Sciences (TÜBA).
- Author of a popular article titled “**Sıkıntıdan patlayan bir yıldız SGR J1833 – 0832**” published in July 2010 issue of NTV Bilim.
- Author of a popular article titled “**Gama Işını Patlamaları**” published in November 2009 issue of TÜBİTAK, Bilim-Teknik.
- Principle Organizer, “**Bilim Eğitiminde Astronomi**” – A series of workshops for school teachers on how to implement astronomy into science curriculum – September 2008 – September 2009
- Co-organizer, “**2009 International Year of Astronomy Activities in Turkey**”
- Co-organizer, “**Köşe Bucak Bilim**” – A workshop for school teachers on science education with in-class activities – 2 June 2007 and 6 April 2008
- Principle Organizer, “**Gündem: Eğitimde Astronomi ve Uzay**” – A workshop for school teachers on the basic concepts in astronomy – 19 November 2005.
- Co-Editor, “**Gama Işını Patlamaları**”, TÜBİTAK, Bilim-Teknik – Yeni Ufuklara, January 2005 issue.
- Guest lecturer or invited speaker at numerous high schools to promote space science and space technologies – on average, two or three times per semester.