

- CONTACT Sabancı University
 INFORMATION Faculty of Engineering and Natural Sciences
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<http://people.sabanciuniv.edu/scaliskan>
- CITIZENSHIP Born June 26, 1982 in Shumen, Bulgaria
 Turkish and Bulgarian dual citizen
- EDUCATION Ph.D., Physics, expected January 2013
Sabancı University, Istanbul, Turkey
 Thesis Title: *Investigating the Evolution of Young Neutron Stars With Fallback Disks*
 Advisor: Assoc. Prof. Ünal Ertan
 B.S., Astrophysics, 2005
California Institute of Technology, Pasadena, CA, USA
- PUBLICATIONS Çalışkan, Ş., Ertan, Ü., Alpar, M. A., Trümper, J. E., & Kylafis, N. D., *On The Evolution of The Radio Pulsar PSR J1734-3333*, submitted to The Astrophysical Journal (2012)
 Ertan, Ü., Alpar, M. A., & Çalışkan, Ş., *Evolution of X-Ray Dim Thermal Neutron Stars*, 2012, in preparation
 Çalışkan, Ş., & Ertan, Ü., *On the X-ray Outbursts of Transient Anomalous X-ray Pulsars and Soft Gamma-ray Repeaters*, 2012, The Astrophysical Journal, **758**, 98
 Alpar, M. A., Ertan, Ü., & Çalışkan, Ş., *SGR 0418+5729 - How does a young neutron star spin down to a 9 s period with a dipole field less than 10^{13} G?*, 2011, The Astrophysical Journal Letters, **732**, 4
 Çalışkan, Ş., Kalemci, E., Baring, M. G., Boggs, S. E., & Kretschmar, P., *Search for a redshifted 2.2 MeV neutron capture line from A0535+262 in outburst*, 2009, The Astrophysical Journal, **694**, 593
 Ertan, Ü., Alpar, M. A., Erkut, M. H., Ekşi, K. Y., & Çalışkan, Ş., *Anomalous X-ray pulsars: persistent states with fallback disks*, 2007, Astrophysics and Space Science, **308**, 73
 Ertan, Ü., & Çalışkan, Ş., *Optical and infrared emission from the anomalous X-ray pulsars and soft gamma-ray repeaters*, 2006, The Astrophysical Journal Letters, **649**, 87
- PROCEEDINGS Çalışkan, Ş., & Ertan, Ü., *X-ray outbursts of AXPs and SGRs*, 2011, The Proceedings of ASTRONS 2010, p.199
 Çalışkan, Ş., Kalemci, E., & Boggs, S. E., *Search for redshifted 2.2 MeV line from 4U 1820-30*, 2007, The Obscured Universe. Proceedings of the VI INTEGRAL Workshop, p.123
- CONFERENCE Çalışkan, Ş., & Ertan, Ü., *X-ray Outbursts of Transient Anomalous X-ray Pulsars and PRESENTATIONS Soft Gamma-ray Repeaters*, poster presentation at The Physics of Neutron Stars Conference, Saint Petersburg, Russia (July 2011)

- Çalışkan, Ş., & Ertan, Ü, *X-ray outbursts of AXPs and SGRs*, poster presentation at The ASTRONS Conference, Çeşme, Turkey (August 2010)
- Çalışkan, Ş., Kalemci, E., & Boggs, S. E., *Search for redshifted 2.2 MeV line from A0535+26*, poster presentation at the ASTRONS Workshop, Istanbul, Turkey (July 2007)
- Çalışkan, Ş., Kalemci, E., & Boggs, S. E., *Search for a redshifted 2.2 MeV neutron capture line from A0535+26 during an outburst*, oral presentation at the SPI Science Meeting at MPE, Garching, Germany (March 2007)
- Çalışkan, Ş., Kalemci, E., & Boggs, S. E., *Search for a redshifted 2.2 MeV neutron capture line from accreting neutron stars*, oral presentation at the SPI Science Meeting at CESR, Toulouse, France (October 2006)
- Çalışkan, Ş., Kalemci, E., & Boggs, S. E., *Search for a redshifted 2.2 MeV neutron capture line from accreting neutron stars*, oral presentation at the High Energy Astrophysics Workshop at Sabancı University, Istanbul, Turkey (September 2006)
- Ertan, Ü, Alpar, M. A., Erkut, M. H., Ekşi, K. Y., & Çalışkan, Ş., *Optical and infrared emission from AXPs in persistent states*, oral presentation at the 15th National Astronomy Conference at Istanbul Kültür University (August 2006)
- Çalışkan, Ş., Kalemci, E., & Boggs, S. E., *Search for gravitationally redshifted 2.2 MeV line from 4U 1820-30*, poster presentation at the 6th INTEGRAL Workshop, Moscow, Russia (July 2006)
- Öğretme, M., Çalışkan, Ş., Pekön, Y., & Kulaksiz, S., *The misconception about normal force in mechanics*, oral presentation at the 18th National Physics Conference at Çukurova University, Adana, Turkey (the only high school or undergraduate students invited to the conference) (October 1999)

SPECIAL TRAINING

- Attended *FERMI* Data Analysis Workshop at Sabancı University, Istanbul, Turkey (August 2010)
- Attended *CompSchool 2009*: NBIA Summer School on Stellar Collapse, Compact Objects, Supernovae, and Gamma-Ray Bursts at the Niels Bohr Institute, Copenhagen, Denmark (August 2009)
- Attended the Astrophysics Summer School on Neutron Stars and Accretion Disks at the Feza Gürsey Institute, Istanbul, Turkey (July 2001)

RESEARCH EXPERIENCE

Sabancı University, Istanbul, Turkey

TÜBİTAK research assistant

September 2007 - present

Studying the properties of fallback disks of young neutron star systems with Dr. Ünal Ertan.

Marie Curie research assistant

September 2005 - September 2007

Worked with Dr. Emrah Kalemci. Did INTEGRAL (SPI) data analysis for an accreting NS and tried to constrain the EOS by studying the redshifted and broadened 2.2 MeV neutron capture line.

University of Leicester, Leicester, England, UK

Visiting researcher

March 2010 - May 2010

Worked with Prof. Graham Wynn. Studied the collision probabilities of neutron stars in binaries after a supernova explosion if the newborn NS has an accretion disk.

California Institute of Technology, Pasadena, CA, USA

Summer undergraduate research fellow

June 2002 - August 2002

Worked with Prof. Lynne Hillenbrand. Did photometry and astrometry on three young star clusters. Produced HR diagrams to reveal ages and magnitudes of stars. Calculated exact positions (RA, Dec) for future spectroscopic studies.

**TEACHING
EXPERIENCE**

Sabancı University, Istanbul, Turkey

ASP Teaching Assistant for MATH101

September 2011 - present

Academic Support Program TA for MATH101 - Calculus I. Responsible for holding one-on-one tutoring sessions with struggling students.

Teaching Assistant for NS101

September 2005 - January 2012

TA for NS101 - Science of Nature (freshman Physics course). Responsible for (i) holding weekly problem-solving recitation sessions and office hours, (ii) supervising and grading weekly quizzes, (iii) supervising physics experiments and grading lab reports, (iv) proctoring and grading exams.

California Institute of Technology, Pasadena, CA, USA

Teaching Assistant for APh23 - Optics

September 2002 - December 2002

Responsible for holding office hours to help students with the coursework.

**AWARDS AND
HONORS**

TA incentive award, Sabancı University (2012)
Ranked 67th in the country in LES (Turkish National Graduate School Entrance Examination) (2004)
Milton & Jane Mohr Scholarship, Caltech (2003)
Milton Chang Scholarship, Caltech (2002)
Edwin Hubble Scholarship, Caltech (2001)
Caltech Alumni Scholarship (2000)

**TECHNICAL
SKILLS**

UNIX, Linux, FORTRAN, IDL, gnuplot, Mathematica, MS Office

**PERSONAL
INTERESTS**

Art history, traveling