

CONTACT INFORMATION	Sabancı University Faculty of Engineering and Natural Sciences G001D, Orhanlı, Tuzla Istanbul, 34956, Turkey	sirincaliskan@sabanciuniv.edu  Phone: +90-216-483-9000 ext.2109 Mobile: +90-532-702-3460
CITIZENSHIP	Born June 26, 1982 in Shumen, Bulgaria Turkish and Bulgarian dual citizen	
EMPLOYMENT	July 2015 - present Visiting Instructor, Foundations Development Directorate <b>Sabancı University</b> , Istanbul, Turkey  February 2013 - June 2015 Postdoctoral scholar, Foundations Development Directorate <b>Sabancı University</b> , Istanbul, Turkey	
EDUCATION	Ph.D., Physics, 2013 <b>Sabancı University</b> , Istanbul, Turkey Thesis Title: <i>On the Evolution of Young Neutron Stars With Fallback Disks</i> Advisor: Assoc. Prof. Ünal Ertan  B.S., Astrophysics, 2005 <b>California Institute of Technology</b> , Pasadena, CA, USA  High school, 2000 <b>TEVİTÖL</b> , Kocaeli, Turkey ( <a href="http://www.tevitol.k12.tr/en">http://www.tevitol.k12.tr/en</a> ) The only high school in Turkey for gifted and talented children.	
TEACHING EXPERIENCE	<b>Sabancı University</b> , Istanbul, Turkey  <i>Instructor for MATH101/102</i> <span style="float: right;"><b>September 2015 - present</b></span> Course instructor for MATH101/102 - Calculus. Responsible for giving lectures each week, assigning quizzes, online homework sets, worksheets, midterm and final exams.  <i>Coordinator for MATH101/102</i> <span style="float: right;"><b>February 2013 - present</b></span> Course coordinator for MATH101/102 - Calculus. Responsible for (i) the preparation and grading of quizzes/exams, (ii) coordinating 800+ students, 40+ assistants and 30+ recitations, (iii) helping the other instructors as needed.  <i>ASP Teaching Assistant for MATH101</i> <span style="float: right;"><b>September 2011 - January 2013</b></span> Academic Support Program TA for MATH101. Responsible for holding one-on-one tutoring sessions with struggling students.  <i>Teaching Assistant for NS101</i> <span style="float: right;"><b>September 2005 - January 2012</b></span> 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.

RESEARCH  
EXPERIENCE

**Sabancı University**, Istanbul, Turkey

*TÜBİTAK Research Assistant*    **September 2007 - February 2013**

Studied the properties of fallback disks around 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.

- PUBLICATIONS
- [9] Benli, O., Çalışkan, Ş., & Ertan, Ü., *Long-term Evolution, X-ray Outburst and Optical/Infrared Emission of SGR 0501+4516*, 2015, MNRAS, **447**, 2282
  - [8] Ertan, Ü., Çalışkan, Ş., Benli, O., & Alpar, M. A., *Long-Term Evolution of Dim Isolated Neutron Stars*, 2014, MNRAS, **444**, 1559
  - [7] Benli, O., Çalışkan, Ş., Ertan, Ü., Alpar, M. A., Trümper, J. E., & Kylafis, N. D., *X-Ray Enhancement and Long-Term Evolution of SWIFT J1822.3–1606*, 2013, The Astrophysical Journal, **778**, 119
  - [6] Çalışkan, Ş., Ertan, Ü., Alpar, M. A., Trümper, J. E., & Kylafis, N. D., *On The Evolution of The Radio Pulsar PSR J1734–3333*, 2013, MNRAS, **431**, 1136
  - [5] 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
  - [4] 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
  - [3] 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

[2] 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

[1] 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 Alpar, M. A., Ertan, Ü., & Çalışkan, Ş., *Fallback Disks, Magnetars and Other Neutron Stars*, 2013, *Feeding Compact Objects: Accretion on All Scales*, Proceedings of the IAU Symposium 290, p.93

Çalışkan, Ş., & Ertan, Ü., *X-ray outbursts of AXPs and SGRs*, 2011, *The Proceedings of ASTRONS 2010*, p.199

Ertan, Ü., Çalışkan, Ş., Ekşi, K. Y., Erkut, M. H., & Alpar, M. A., *A Natural Limit on the Observable Periods of Anomalous X-ray Pulsars and Soft Gamma-ray Repeater*s, 2011, *The Proceedings of ASTRONS 2010*, p.160

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 Repeater*s, 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 *NewCompStar: The Many Faces of Compact Stars: Barcelona School, IEEC, Barcelona, Spain (September 2014)*

*FERMI Data Analysis Workshop, Sabancı University, Istanbul, Turkey (August 2010)*

*CompSchool 2009: NBIA Summer School on Stellar Collapse, Compact Objects, Supernovae, and Gamma-Ray Bursts, Niels Bohr Institute, Copenhagen, Denmark (August 2009)*

Astrophysics Summer School on Neutron Stars and Accretion Disks, Feza Gürsey Institute, Istanbul, Turkey (July 2001)

PUBLIC OUTREACH **Sabancı University, Istanbul, Turkey**

*Galileo Teacher Training Program Mentor* **January 2011 - present**  
 Taught teachers, educators and teacher candidates how to do simple physics and astronomy experiments and how to use the sky atlas. Oversaw stellar and solar observations with optical telescopes.

*NS101 OpenCourseWare Assistant* **February 2011 - June 2011**  
 Videotaped NS101 (freshman physics) lectures. Created and maintained the open course website.

**Sabancı Communications Center, Istanbul, Turkey**

*“Astronomy in Science Education” Mentor* **October 2008 - June 2009**  
 Taught middle school and high school teachers how to perform simple physics and astronomy experiments and demonstrations for their students.

AWARDS AND HONORS TA incentive award, Sabancı University (2012)  
 67th place out of ~200,000 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

MEMBERSHIPS Turkish Astronomical Society (2006 - present)

PERSONAL INTERESTS Art history, traveling, animal rescue