Onur Benli   *Curriculum Vitae*

CONTACT
INFORMATION

Basic Sciences Unit
TED University
Ziya Gökalp Cad. No 48, Kolej
Ankara 06420 Turkey

Mobile Phone : (+90) 541 979 59 75
E-mail : onurbenli21@gmail.com
Web   : https://onurbenli21.wixsite.com/astro

PERSONAL
INFORMATION

Born in Çanakkale/Turkey, 1987, Citizen of Turkey

CURRENT
AFFILIATION

Assistant Professor of Physics, TED University

RESEARCH
INTERESTS

Accretion onto compact objects,
dynamical evolution and radiative properties of accretion disks,
transitional millisecond pulsars,
accreting X-ray binaries,
pulsar magnetosphere.

EDUCATION

Sabancı University, İstanbul, Turkey

Ph.D., Physics, June 2016
- Thesis Topic: *Investigation of isolated neutron stars with the fallback disk model*
- Supervisor: Ünal Ertan

İzmir Institute of Technology, İzmir, Turkey

B.S., Physics Department, June 2010

RESEARCH
EXPERIENCE

- Postdoctoral Researcher - Strasbourg Observatory   Jan. 2020 - Jan. 2021

- Postdoctoral Researcher - University of Southampton   Feb. 2019 - December 2019

- Postdoctoral Researcher - Sabancı University   Mar. 2017 - Jan. 2019

- Postdoctoral Researcher - Sabancı University   Jul. - Sep. (2016)

- PhD. Research Assistant   2013 - 2016
  *Physical Properties and Evolutionary Connections of Young
  Neutron Star Systems"*, TUBITAK Project
  Supervised by Ünal Ertan

- PhD. Research Assistant   2010 - 2013
  "*Investigation of the Evolution of Young Neutron Star
  Systems by Fallback Disks*", TUBITAK Project
  Supervised by Ünal Ertan

- Undergraduate Research Project
  Supported by TUBITAK   2008 - 2010
  "*General Relativity and Palatini Formulation*"
  Supervised by Durmuş Ali Demir

REFEREED JOURNAL PUBLICATIONS

1. **Benli, O.**, J. Petri & D. Mitra "Constraining millisecond pulsar geometry using time-aligned radio and gamma-ray pulse profile", 2021, *Astronomy & Astrophysics*, 647, A101

2. **Benli, O.** "On the peculiar torque reversals and the X-ray luminosity history of the accretion-powered X-ray pulsar 4U 1626–67" 2020, *MNRAS*, 495, 3531

3. **Benli, O.** & Ertan, Ü. "Central Compact Objects: some of them could be spinning up?" 2018, *MNRAS*, 478, 4890

4. **Benli, O.** & Ertan, Ü. "Rotational and X-ray luminosity evolution of high-B radio pulsars" 2018, *New Astronomy*, 61, 78-83

5. **Benli, O.** & Ertan, Ü. "On the evolution of high-B radio pulsars with measured braking indices" 2017, *MNRAS*, 471, 2553

6. **Benli, O.** & Ertan, Ü. "Long-term evolution of anomalous X-ray pulsars and soft gamma repeaters" 2016, *MNRAS*, 457, 4114

7. **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

9. **Benli, O.**, Çalışkan, Ş., Ertan, Ü., et al. "X-Ray Enhancement and Long-term Evolution of Swift J1822.3-1606" 2013, *ApJ*, 778, 119

JOURNALS REFEREED

The Astrophysical Journal (ApJ), Monthly Notices of the Royal Astronomical Society (MNRAS)

AWARDS & GRANTS

BIDEB 2219 Postdoctoral Fellowship   2018

Teaching Assistant Incentive Award, Sabancı University   2013

Project Scholarship offered by Sabanci University   2010 - 2016

TEV (Turkish Educational Foundation) Scholarship   2005 - 2010
for undergraduate study

ACTIVE MEMBERSHIPS	Turkish Astronomical Society (TAD)
	International Astronomical Union (IAU)
	European Astronomical Society (EAS)

COURSES OFFERED

- PHYS101: General Physics I, TED University
  - 2023-2024 Spring (2 Sections)
  - 2023-2024 Fall
  - 2022-2023 Spring

- PHYS105: Mechanics & Electricity, TED University
  - 2022-2023 Spring
  - 2022-2023 Fall (2 Sections)
  - 2021-2022 Spring (3 Sections)

- LIBE120: Foundations and Frontiers of Science, TED University
  - 2023-2024 Spring (2 Sections)
  - 2023-2024 Fall (5 Sections)

TEACHING ASSISTANT

- Astrophysical Disks Summer School   August 2017
  Feza Gürsey Institute, Istanbul, Turkey

- Academic Support Program (ADP)   2015 Fall - 2016 Spring
  Peer study with students
  Sabancı University

- Science of Nature II - " *Module I: Climate change,*   Fall 2014
  Module II: Can we ever comprehend the human brain?"
  (I contributed also to the organization of the lecture content)
  Instructors: Gözde Ünal, Gözde İnce
  Sabancı University

- Science of Nature I - " *Classical mechanics, statistical*   2010–2014
  mechanics, electricity & magnetism and quantum mechanics"
  Instructors: M. A. Alpar, Ü. Ertan, E. Kalemci, E. Gogus, Y. Kaneko
  Sabancı University

- Hakkı Ögelman Summer School (twice)   2011, 2012
  " Physics for Astronomers"
  Instructor: M. Ali Alpar
  The Science Academy, Istanbul

PROFESSIONAL ACTIVITIES	**Conferences**

- "*SPINS-UK 2019, UCL*", UK
  (Contributed Talk) — May 2019

- "*Jodrell Bank Centre for Astrophysics The University of Manchester*", UK
  (Invited Talk) — April 2019

- "*42nd Cospar Scientific Assembly - E1.10: Structure, Evolution and Dynamics of Neutron Stars*", Pasadena, CA, USA
  (Contributed Talk) — July 2018

- "*19th National Astronomy Conference*", Ankara, Turkey — Feb 2015

- "*Physics of Neutron Stars*" commemorating the 100th birthday of Yakov Borisovich Zel'dovich, St. Petersburg, Russia
  (Poster Presentation) — July 2014

- "*Explosive Transients: Lighthouses of the Universe*", Santorini, Greece
  (Poster Presentation) — Sep 2013

- "*International Summer School and Conference on High Energy Physics: Standard Model and Beyond (ISSCSMB-09)*", Muğla, Turkey — 27 Aug - 04 Sep. 2009

- "*5th National Student Conference of Turkish Physical Society (UFOK-5), METU Ankara/Turkey,* " — June 2009

- "*3rd National Student Conference of Turkish Physical Society (UFOK-3), ESOGU Eskisehir/Turkey,* " — May 2007

Summer Schools

- "*Python Programming for Astronomers*"
  Feza Gürsey Institute, Istanbul, Turkey — Aug 2014

- "*International Research Advanced School in Physics -PHYSICS OF STARS*", ITAP, Marmaris, Turkey — July 2011

- "*Summer School on Differential Geometry & Its Applications in Theoretical Physics*", Feza Gürsey Institute, Istanbul, Turkey — Aug 2009

COMPUTER SKILLS	Unix-like operating systems (GNU/Linux), Fortran, Python, C++, gnuplot and LaTeX

LANGUAGE SKILLS	**Turkish:** Native language **English:** Fluent (Exam: ÜDS2010, Grade: 92.25) **French:** Basic