

Asst. Prof. AYŞEGÜL FULYA YELKENCİ

Personal Information

Office Phone: [+90 212 498 4320](tel:+902124984320)

Email: a.teker@iku.edu.tr

Web: <https://avesis.iku.edu.tr/a.teker>

International Researcher IDs

ScholarID: aQpqcP0AAAAJ

ORCID: 0000-0003-1154-927X

Publons / Web Of Science ResearcherID: Y-2201-2019

ScopusID: 57498656800

Yoksis Researcher ID: 142309

Biography

She received her undergraduate education at Istanbul University, Faculty of Science, Department of Astronomy and Space Sciences. In May 2003, she completed her master's degree at the Astronomy and Space Sciences Program of Istanbul University, Institute of Science and Technology. She started her doctoral studies in the same program in the 2003-2004 Fall semester. In October 2003, she started working as a research assistant at IKU Faculty of Science and Letters, Department of Mathematics and Computers. She continued her duty at IKU with the establishment of IKU Physics Department in 2004. During her doctorate, she conducted observational studies on the properties of metallic stars. Between 2006 and 2007, she was a visiting researcher at The Citadel University in Charleston, South Carolina, USA, for her doctoral studies and completed her PhD in 2009. She is currently continuing her studies on stellar atmospheres and the chemical abundances of peculiar stars. In addition to her scientific research and administrative duties, she also carries out activities and projects on Astronomy education and the popularization of science through Astronomy. She has been a member of the TÜBİTAK Science Olympiad Astronomy and Astrophysics Olympic Committee since December 2021 and takes part in TÜBİTAK BİDEB Curriculum Development studies. She served as the Turkey Representative of IAU NOC - International Astronomical Union National Outreach Coordinator of Türkiye between 2012 and 2018, and as the Secretary General of the Turkish Astronomical Society between September 2016 and 2018. She has been organising Astronomy Teacher Trainings with AstroBilgi committee since 2006. Since 2019, she has been working as IAU OAE NAEC - Türkiye National Astronomy Education Coordinator of International Astronomical Union Office of Astronomy for Education. She is currently a member of the Turkish Astronomical Society Public Outreach Committee, NAEC chair and contact person.

Education Information

Doctorate, Istanbul University, Fen Bilimleri Enstitüsü, Astronomi Ve Uzay Bilimleri (Dr), Turkey 2003 - 2009

Doctorate, The Citadel, The Military College of South Carolina, Department of Physics, United States Of America 2006 - 2007

Postgraduate, Istanbul University, Fen Bilimleri Enstitüsü, Astronomi Ve Uzay Bilimleri (YI) (Tezli), Turkey 2001 - 2003

Undergraduate, Istanbul University, Fen Fakültesi, Astronomi Ve Uzay Bilimleri Bölümü, Turkey 1997 - 2001

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Özel Am yıldızı 15 Vulpecula'nın Tayfsal Analizi, Istanbul University, Institute Of Graduate Studies In Sciences, Astronomi Ve Uzay Bilimleri (Dr), 2009

Postgraduate, B yıldızlarının genel özellikleri ve 2 del yıldızının tayfsal analizi, Istanbul University, Institute Of Graduate Studies In Sciences, Astronomi Ve Uzay Bilimleri (YI) (Tezli), 2003

Research Areas

History, History of Technology, Science, Technology and Society, Public Education, Curriculum Development, Educational Technology, Curriculum Development and Teaching Methods, Teacher Training in Natural Sciences, Teacher Training in Science and Math. at Primary Sch. Level, Education in Natural Sciences, Education in Physics, Teacher Training, Teacher Training For Secondary School, Teacher Training in Science and Math. at Second. Sch. Lev., Physics, Astronomy and Astrophysics, Interdisciplinary Physics and Related Science and Technology Areas, General Physics

Academic Titles / Tasks

Assistant Professor, Istanbul Kultur University, Fen-Edebiyat Fakültesi, Fizik, 2018 - Continues

Assistant Professor, Istanbul Kultur University, Fen-Edebiyat Fakültesi, Fizik, 2010 - 2018

Lecturer PhD, Istanbul Kultur University, Fen-Edebiyat Fakültesi, Fizik, 2009 - 2010

Research Assistant, Istanbul Kultur University, Fen-Edebiyat Fakültesi, Fizik, 2004 - 2009

Research Assistant, The Citadel, The Military College of South Carolina, Swain Family School Of Science And Mathematics, Physics, 2006 - 2007

Research Assistant, Istanbul Kultur University, Fen-Edebiyat Fakültesi, Matematik ve Bilgisayar Bilimleri, 2003 - 2004

Academic and Administrative Experience

Member of University Quality Commission, Istanbul Kultur University, Fen-Edebiyat Fakültesi, Fizik, 2022 - Continues

Member of Unit Quality Commission, Istanbul Kultur University, Fen-Edebiyat Fakültesi, 2022 - Continues

Vice Dean, Istanbul Kultur University, Fen-Edebiyat Fakültesi, 2022 - Continues

Member of Department Quality Commission, Istanbul Kultur University, Fen-Edebiyat Fakültesi, Fizik, 2021 - Continues

Faculty Board Member, Istanbul Kultur University, Fen-Edebiyat Fakültesi, Fizik, 2023 - 2024

Head of Department, Istanbul Kultur University, Fen-Edebiyat Fakültesi, Fizik, 2023 - 2023

Deputy Head of Department, Istanbul Kultur University, Fen-Edebiyat Fakültesi, Fizik, 2017 - 2023

Deputy Head of Department, Istanbul Kultur University, Fen-Edebiyat Fakültesi, Fizik, 2014 - 2017

Courses

PHYSICS II, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020

GALAKSİLER VE EVRENİN YAPISI, Postgraduate, 2023 - 2024, 2021 - 2022, 2020 - 2021, 2019 - 2020

TEZ, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020

YILDIZLAR FİZİĞİ II, Postgraduate, 2023 - 2024, 2021 - 2022, 2020 - 2021, 2019 - 2020

METHOD AND ETHICS IN SCIENTIFIC RESEARCH, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021

THE UNIVERSE, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021

Fundamentals of Astronomy, Undergraduate, 2022 - 2023

SEMİNER, Postgraduate, 2023 - 2024

UZAY ÇALIŞMALARI, Postgraduate, 2023 - 2024, 2021 - 2022, 2020 - 2021, 2019 - 2020

PHYSICS I, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020

YILDIZLAR FİZİĞİ I, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021

PHYSICS OF EVERYDAY LIFE, Undergraduate, 2021 - 2022, 2020 - 2021

Supervised Theses

AYŞEGÜL FULYA Y., Ötegezegen arařtırmalarında geçiř yöntemi ve ışık eğrisi analizi, Postgraduate, C.BERBER(Student), 2021

AYŞEGÜL FULYA Y., Astrofizikte makine öğrenmesi algoritmaları kullanılarak galaksilerin özelliklerinin tespit edilmesi, Postgraduate, H.TAYFUN(Student), 2021

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Elemental Abundance Analyses with DAO Spectrograms. XXXIX. The Am Stars 2 UMa and 15 Vul**
ÇAY İ., YELKENCİ A. F., Adelman S. J.
PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF THE PACIFIC, vol.128, no.963, pp.1-8, 2016 (SCI-Expanded)
- II. **Elemental abundance analyses with DAO spectrograms: XXXI. The early F supergiants v Her (F2 II) and 41 Cyg (F5 Ib-II)**
Adelman S., ÇAY İ., Tektunali H., Gulliver A., Teker A. F.
Astronomische Nachrichten, vol.329, no.1, pp.4-9, 2008 (SCI-Expanded)
- III. **Elemental abundance analyses with DAO spectrograms -: XXIX.: The mercury-manganese stars 53 Tau, β Tau, γ Crv, and v Her**
Adelman S., ÇALIŞKAN H., Gulliver A., Teker A. F.
ASTRONOMY & ASTROPHYSICS, vol.447, no.2, pp.685-690, 2006 (SCI-Expanded)
- IV. **Elemental abundance analyses with DAO spectrograms -: XXVI.: The superficially normal stars serpentis γ (F6 V) and 101 Herculis (A7 V)**
Caliskan H., Adelman S., Cay M., Cay I., Gulliver A., Tektunali G., Kocer D., Teker A. F.
ASTRONOMY & ASTROPHYSICS, no.1, pp.187-192, 2002 (SCI-Expanded)

Articles Published in Other Journals

- I. **An International Astronomy Education Project for Mediterranean Region Countries**
Yelkenci A. F., Yelkenci F. K., Koçer D.
Turkish Journal of Astronomy & Astrophysics, vol.4, no.3, pp.270-272, 2023 (Peer-Reviewed Journal)
- II. **A preliminary analysis of the sharp-lined A3V star 95 Leo**
Teker A. F., Adelman S. J., Koçer D.
PROCEEDINGS OF THE INTERNATIONAL ASTRONOMICAL UNION, vol.2004, no.IAUS224, pp.544-547, 2004 (Conference Book)

Books

- I. **Physics Laboratory Manual: Mechanics 2nd Edition**
YELKENCİ A. F., HACİBEKİROĞLU G., ÖZER M., İŞİK E., ÖĞRÜÇ İLDİZ G.
İKÜ Yayınevi, İstanbul, 2013
- II. **Fizik Laboratuvarı Deney Kitabı: Elektrik ve Manyetizma**
YELKENCİ A. F., ÖĞRÜÇ İLDİZ G., ÖZER M., İŞİK E.

Refereed Congress / Symposium Publications in Proceedings

- I. **Using web based astronomical data archives and remote observing activities for teachers and students**
Yelkenci A. F.
Mediterranean Regional STEAM Astronomy Summer School and Co-Design Workshop, Fas, Morocco, 21 - 27 June 2023
- II. **The New Astronomy Curriculum Pilot Program in Turkey**
Yelkenci A. F.
4th Shaw-IAU Workshop on Astronomy for Education, Heidelberg, Germany, 15 - 17 November 2022, pp.19-20
- III. **The Sun In My Box**
Yelkenci A. F.
International Teacher Training Workshop: Astronomy Support for Primary School Curricula, İstanbul, Turkey, 8 - 09 October 2022
- IV. **Exploring Light: Pinhole Cameras As Educational Tools**
Yelkenci A. F., Koçer D., Yelkenci F. K.
"STEAM-MED: codesign for children" Workshop, Milan, Italy, 3 - 07 July 2022
- V. **Stellar Abundances**
Yelkenci A. F.
The 5th Azarquiel School of Astronomy, international online school, İstanbul, Turkey, 15 - 19 November 2021
- VI. **AstroBilgi Astronomy Teacher Training Workshops in Turkey**
Yelkenci A. F.
2nd Shaw-IAU Workshop on Astronomy for Education , Heidelberg, Germany, 6 - 09 October 2020, pp.27
- VII. **Am Stars 2 UMa and 15 Vul**
Yelkenci A. F.
XX.Ulusal Astronomi Kongresi (UAK2016), Erzurum, Turkey, 5 - 09 September 2016
- VIII. **TÜBİTAK TEYDEP-1511 Teması Değişebilir Sanal Gerçeklik Simülatörü ve Tematik Sergi Alanı Tasarlanması - Prototip Üretiminin Gerçekleştirilmesi**
GÜLLER E., YELKENCİ A. F., GÜRSOY G.
TÜBİTAK TEYDEP 1511 "Teması Değişebilir Sanal Gerçeklik Simülatörü ve Tematik Sergi Alanı Tasarlanması- Prototip Üretiminin Gerçekleştirilmesi" projesi hazırlık toplantısı, Mersin, Turkey, 18 April 2018
- IX. **Abundance In Stars**
Yelkenci A. F.
The 4th Azarquiel School of Astronomy, Syracuse, Italy, 11 - 16 June 2017
- X. **An Elemental Abundance Analysis of The Marginal Am Star 15 Vulpecula**
Yelkenci A. F.
Putting A Stars Into Context: Evolution, Environment, and Related Stars, Moscow, Russia, 3 - 07 June 2013
- XI. **Measurement of Night Sky Brightness in Turkey**
Yelkenci A. F., Koçer D., Yelkenci F. K., Küçük İ., Çakmak S., Kalkan H., Özdemir T.
11th European Symposium for the Protection of the Night Sky, Bielefeld, Germany, 6 - 08 October 2011
- XII. **Beyond International Year Of Astronomy 2009-2010 Events of Istanbul Kültür University in Turkey**
Yelkenci A. F.
Azarquiel School of Astronomy - A bridge between East and West, Granada, Spain, 4 - 11 July 2010

Supported Projects

Yelkenci A. F., TUBITAK Project, 2248 - BİLİM OLİMPİYATLARI - AYŞEGÜL FULYA YELKENCİ, 2022 - 2027

Yelkenci A. F., Zanazzi A., Ricciardi S., Other International Funding Programs, FRESCO (Florence RESidency and COdesign) project, 2024 - 2025
Yelkenci A. F., Sandrelli S., Other International Funding Programs, SABIR Co-design Project, 2024 - 2025
Yelkenci A. F., Sandrelli S., Ricciardi S., Civil Society Organizations of Other Countries Supported Project, The MIRTO (Mediterranean Informal Round Table Online) Project, 2023 - 2023
Yelkenci A. F., Koçer D., TUBITAK Project, Kartal'ın Gözünden Bilim Şenliği, 2023 - 2023
Yelkenci A. F., Koçer D., Civil Society Organizations of Other Countries Supported Project, "Astronomy Support for Primary School Curricula", IAU Office of Astronomy for Education Teaching Teachers Program Pilot 2022, 2022 - 2023
Yelkenci A. F., Koçer D., Development Agency, Adalar'dan Uzaya: Bir Keşif Macerası, 2022 - 2023
Yelkenci A. F., Koçer D., Erasmus Project, Özel Eğitim için Yenilikçi Eğitim ve Metotlar ve Materyaller, 2022 - 2022
Yelkenci A. F., Koçer D., Horizon Europe Project, MSCA-NIGHT-2018 - International Mersin Science Night MERSCIN, 2018 - 2020
Yelkenci A. F., Koçer D., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Astronomi ve Uzay Bilimleri Eğitimci Eğitimi ve BİLSEM Standartlarını Ülke Standartlarına Yükseltme, 2019 - 2019
YELKENCİ A. F., Other International Funding Programs, AB-2 Astronomy Teacher Training Workshop, 2019 - 2019

Memberships / Tasks in Scientific Organizations

Astronomi ve Astrofizik Olimpiyatları, Board Member, 2021 - Continues, Turkey
International Astronomical Union Office of Astronomy for Education, Principal Member, 2019 - Continues, France
European Astronomical Society, Principal Member, 2019 - Continues, Switzerland
International Astronomical Union, Principal Member, 2018 - Continues, France
Türk Astronomi Derneği, Principal Member, 2009 - Continues, Turkey
Müfredat Geliştirme, Member of Science Committee, 2021 - 2023, Turkey
Türk Matematik Derneği, Principal Member, 2005 - 2019, Turkey
Türk Astronomi Derneği, Secretary General, 2016 - 2018, Turkey
Sigma Xi Scientific Research Society, Member, 2007 - 2009, United States Of America

Scientific Refereeing

TUBITAK Project, 4007 - Bilim Şenlikleri Destekleme Programı, Hatay İl Milli Eğitim Müdürlüğü İskenderun İlçe Milli Eğitim Müdürlüğü, Turkey, May 2024
TUBITAK Project, 4007 - Bilim Şenlikleri Destekleme Programı, Payas İlçe Milli Eğitim Müdürlüğü, Turkey, May 2024

Scientific Consultations

Kültür Fen Lisesi, Scientific Consultancy, Istanbul Kultur University, Fen-Edebiyat Fakültesi, Fizik, Turkey, 2023 - 2024
Kültür Fen Lisesi, Scientific Consultancy, Istanbul Kultur University, Fen-Edebiyat Fakültesi, Fizik, Turkey, 2022 - 2023

Tasks In Event Organizations

Yelkenci A. F., 30. TÜBİTAK Bilim Olimpiyatları, Astronomi ve Astrofizik Olimpiyatları Kış Kampı, Science / Art Camp or Summer School Organization, Antalya, Turkey, Şubat 2023

Metrics

Publication: 21

Citation (WoS): 29

Citation (Scopus): 21

H-Index (WoS): 2

H-Index (Scopus): 1

Congress and Symposium Activities

Mediterranean Regional STEAM Astronomy Summer School", Invited Speaker, Fas, Morocco, 2024

31. TÜBİTAK Bilim Olimpiyatları Yaz Okulu , Attendee, Afyonkarahisar, Turkey, 2023

the 16th International Olympiad on Astronomy and Astrophysics, Attendee, Chorzow, Poland, 2023

AstroBilgi Öğretmen Seminerleri-18, Invited Speaker, Düzce, Turkey, 2023

ADALAR ÖĞRETMENLERİNE Astronomi Eğitimi, Invited Speaker, İstanbul, Turkey, 2023

30. TÜBİTAK Bilim Olimpiyatları Kış Okulu, Attendee, Antalya, Turkey, 2023

Invited Talks

Uzay Çalışmalarının Yaşamımıza Yansımaları, Conference, Kartal'ın Kanadında Bilim Şenliği", TÜBİTAK 4007 Projesi, Turkey, June 2023

"Astronomi Eğitimi", Conference, "Adalar'dan Uzaya: Bir Keşif Macerası" İSTKA Projesi Gözlem Şenliği, Turkey, June 2023

İELEV Gökyüzüyle Buluşma Etkinlikleri, Conference, İELEV, Turkey, May 2023

Non Academic Experience

TUBİTAK, TÜBİTAK, BİDEB

Professional Association, Türk Astronomi Derneği, Bilim Toplum Komisyonu

Professional Association, International Astronomical Union, Office of Astronomy for Education

Professional Association, International Astronomical Union, Office of Astronomy for Development

TUBİTAK, TÜBİTAK, BİDEB

Professional Association, Türk Astronomi Derneği, Yönetim Kurulu

Professional Association, International Astronomical Union, Office of Astronomy for Development