

Sergen Özdemir



Curriculum Vitae

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Education

- Master's Degree, Ege University, İzmir.** 2016–2019
Astronomy and Space Sciences Department
Astrophysics Master Degree Program
Graduated with GPA: 3.29/4.00
- Bachelor's Degree, Ege University, İzmir.** 2011–2016
Astronomy and Space Sciences Department
Honor Student, graduated with GPA: 3.48/4.00, Class rank: 1
- BSc Exchange, Stockholm University, Stockholm.** 2015–Spring
Department of Astronomy
Exchange student in Erasmus+ Program

Master thesis

Title: *Chemical abundance analysis of stars selected from the reddened Trumpler 5 open cluster in the infrared.*

Supervisor: Prof. Dr. Melike Afşar

Bachelor thesis

Title: *Radial Velocity Measurements in Binary Stars: A Special Case "EQ Boo".*

Supervisor: Prof. Dr. Zeynep Bozkurt

Languages Skills

Turkish: Mother Tongue

English: IELTS Grade 7.0

*Listening:7.0
Reading: 7.5
Writing:6.0
Speaking:6.5*

Spanish: Beginner

GRE

GRE General:

*Verbal Reasoning: 137
Quantitative Reasoning: 158
Analytical Writing 3.0*

Computer skills

C: Good
Python: Good
IRAF and VO Tools: Advanced
Office Suites: Advanced
SQL: Familiar
Photo and Video Editing: Good

Articles

SCI articles

Chemical Abundances Of Open Clusters From High-Resolution Infrared Spectra. I. NGC 6940, Topçu, G.B., Afşar, M., Sneden, C. *et al.*, 2019, MNRAS, 485, 4625

Chemical Compositions of Red Giant Stars from Habitable Zone Planet Finder Spectroscopy, Sneden, C., Afşar, M., Bozkurt, Z. *et al.*, 2021, AJ, 161, 128

Metal-poor Stars Observed with the Automated Planet Finder Telescope. III. The CEMP-no Stars are the Descendant of Population III Stars, Almusleh, N.A., Özdemir, S., Rah, M. *et al.*, 2020, Accepted to RAA

High-Resolution Infrared Spectroscopy of Metal-Poor Open Cluster: Trumpler 5, Özdemir, S., Afşar, M., Sneden, C. *et al.*, 2020, Ready to submit

non-SCI Articles and Proceedings

The Nucleosynthesis and Reaction Rates Of Fluorine 19 (¹⁹F) In The SUN, Mardini, M.K., Ershiadat, N., Al-Wardat, M.A. *et al.*, 2019, J. Phys.: Conf. Ser. 1258 012024

Meetings and Schools

National

- "The Nature of Accretion Disks" Workshop, İzmir, Turkey. 2021
Ege University Observatory
Participant
- "Stellar Seismology" Workshop, İzmir, Turkey. 2021
Ege University Observatory
Participant
- "Deep Learning and Artificial Intelligence in Astronomy" Workshop, İzmir, Turkey. 2020
Ege University Observatory
Participant
- "Measuring the Time in Natural Sciences" Workshop, İzmir, Turkey. 2020
Ege University Observatory
Participant
- "The Sun, Solar Energy and Earth Climate" Workshop, İzmir, Turkey. 2020
Ege University Observatory
Participant
- Recent Studies on Stellar Clusters Workshop, İzmir, Turkey. 2020
Ege University Observatory
Participant
- Tübitak National Observatory Summer Programme for Graduate Students, Antalya, Turkey. 2020

<p>ATASAM Education and Application Programme for Graduate Students (ALÜP), Erzurum, Turkey.</p> <p>Atatürk University Astrophysics Research and Application Center (ATASAM) Participant</p>	<p>2019</p>
<p>1. Graduate Echelle Spectroscopy Summer School, İzmir, Turkey.</p> <p>Ege University Observatory Participant</p>	<p>2019</p>
<p>"100-hours Astronomy on Ege" as a part of 100th year of IAU, İzmir, Turkey.</p> <p>LOC member</p>	<p>2019</p>
<p>4th Young Physicists Congress, İzmir, Turkey.</p> <p>Participant</p>	<p>2016</p>
<p>20th National Astronomy Congress, Erzurum, Turkey.</p> <p>Participant</p>	<p>2016</p>
<p>Tübitak National Observatory Summer Programme for Undergraduate Students, Antalya, Turkey.</p>	<p>2015 - I</p>
<p><i>International</i></p>	
<p>KROME Bootcamp 2021, Online.</p> <p>Participant</p>	<p>2021</p>
<p>MW-Gaia Workshop 2021, Online.</p> <p>Participant</p>	<p>2021</p>
<p>Science with UV-efficient Ground-Based Spectrographs, Online.</p> <p>Participant</p>	<p>2021</p>
<p>Mathematical Physics Days 2020, Online, Turkey.</p> <p>Participant</p>	<p>2020</p>
<p>Linking the Galactic and Extragalactic Meeting, Online, Australia.</p> <p>Participant</p>	<p>2020</p>
<p>"Astronomical Surveys and Big Data 2" Symposium, Online, Armenia.</p> <p>Participant</p>	<p>2020</p>
<p>The Seventh Byurakan International Summer School for Young Astronomers, Online, Armenia.</p> <p>Participant</p>	<p>2020</p>
<p>The Sixth Indo-French Astronomy School, Online, France.</p> <p>Partial Participation</p>	<p>2020</p>
<p>The Ninth International Workshop on Occultation and Eclipse, Çanakkale, Turkey.</p>	<p>2019</p>
<p>Instability Phenomena and Evolution of the Universe, Yerevan, Armenia.</p> <p>Poster Contribution</p>	<p>2018</p>
<p>The Sixth Byurakan International Summer School for Young Astronomers, Yerevan, Armenia.</p> <p>Participant</p>	<p>2018</p>
<p>The Current and Future Observing Facilities: A Guided Tour, Belgrade, Serbia.</p> <p>Oral Contribution Advanced School</p>	<p>2018</p>

The Eight International Workshop on Occultation and Eclipse, 2018
İstanbul, Turkey.

Visited Observatories

- Ege University Observatory Application and Research Center, Turkey
- TÜBİTAK National Observatory, Turkey
- Canakkale Onsekiz Mart University Ulupınar Observatory, Turkey
- Eastern Anatolia Observatory Construction Site, Turkey
- Stockholm University Observatory, Sweden
- Astronomical Observatory of Belgrade, Serbia
- Byurakan Observatory, Armenia

Work Experience

- TÜBİTAK (The Scientific and Technological Research Council of Turkey) 1001 - The Scientific and Technological Research Projects Funding Program
Position: Scholarship
Duration: 2 year
Project Number: *****
Status: Continues
- TÜBİTAK (The Scientific and Technological Research Council of Turkey) 1002 Short Term *R&D* Funding Program
Position: Scholarship
Duration: 1 year
Project Number: 117F497
Status: Finished with success
- As a part time waiter at various cafes
- Teaching in mobile planetariums for different age groups
- Guide in some popular science meetings organized by private foundation schools

Outreach Activities

- Volunteer in LÖSEV, Foundation for Children with Leukemia
- Volunteer in Turkish Red Crescent
- Various Scientific Fairs for STEM Education, Turkey, Voluntary Guidance, Since 2014
- 17th and 19th National Sky Observation Festival (2014:16), Antalya, Turkey
- Scientific and Technological Research Council of Turkey 4007 Science Fair, 2016, Manisa, Turkey, As a Guide

Certificates

- ADOBE Creative Cloud Softwares Basic Tools and Techniques (Photoshop, Premiere Pro, Dimension, InDesign, Animate, After Effects, Illustrator)
- Basic Tools and Techniques of ADOBE Spark ADOBE XD and Acrobat Pro DC
- Introduction to Information Technologies, Ministry of Treasury and Finance of Turkey

- Structured Query Language (SQL), Ministry of Treasury and Finance of Turkey
- ISO 10002
- ISO 9001:2008 Documentation
- CE Marking
- ISO 19011 Documentation
- Strategic Management

Interests

Photography: As an amateur photographer

Sky: Observations with telescopes and naked-eye as a hobby

Travel: 20 countries and increasing

Electronics: I like working on the electronics