



NURHAN ÖZLEM KAYA

PhD Candidate

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EDUCATION

- 2024- ... **PHD, VISITING RESEARCHER**
UNIVERSITY OF TURIN
Department: *Physics*
Supervisor: *Assoc. Prof. Matteo BROGI*
(e-mail: matteo.brogi@unito.it)
- 2021- ... **PHD**
EGE UNIVERSITY
Department: *Astrophysics*
Supervisor: *Prof.Dr. Zeynep BOZKURT*
(e-mail: zeynep.bozkurt@ege.edu.tr)
- 2018 - 2020 **MSC**
EGE UNIVERSITY
Department: *Astrophysics*
Thesis: *"The Oscillations Seen in the Longitudinal Migration of the Cool Stellar Spots"*
Supervisor: *Assoc. Prof. Hasan Ali DAL*
- 2012 -2017 **BACHELOR OF SCIENCE**
EGE UNIVERSITY
Department: *Astronomy and Space Sciences*
Thesis: *"Data Mining with High Time Resolution Satellite Data"*



PROJECTS

- **TUBITAK 2214-A INTERNATIONAL RESEARCH FELLOWSHIP PROG. FOR PHD**
Visiting Researcher
University of Turin, Italy.
2024-...
"Measuring the Composition of Exoplanet Atmospheres using High-Resolution Spectroscopy"
- **TUBITAK PROJECT NO: 123F439**
Researcher
"Estimation of the 25th Sunspot Cycle Using ARIMA Statistical Method and Data Mining Methods"
- **TUBITAK PROJECT NO: 116F213**
Scholarship Student
"The Change of Flare Energy and Flare Mechanism According to Spectral Type for White Light Flares Observed in UV Ceti Stars"
- **TUBITAK PROJECT NO: 116F349**
Scholarship Student
"Using Spectral Observations, Determination of the Nature of Triple Systems, One of Which is Pulsating and the Other is a Chromospheric Active Star"

NURHAN ÖZLEM KAYA

PhD Candidate

SKILL

PROGRAMMING LANGUAGE

PYTHON



OPERATING SYSTEM

MacOs



Microsoft Windows



Ubuntu / Linux



SOFTWARE / PROGRAMME

IRAF



MOOG



IDL



LATEX



PHOEBE



PERIOD04



Microsoft Office Programs



ESO'S PIPELINES (ESOREFLEX)



JKTEBOP



DS9



MAXIM DL 5



INTERNATIONAL PUBLICATIONS

- Kaya, N. Ö. and Dal, H. A.**
"Some Findings from the Longitudinal Migration of Starspots"
2024, *Publications of the Astronomical Society of Australia*, Volume 41, e031.
(DOI: <https://doi.org/10.1017/pasa.2024.28>)
- Kaya, N. Ö. and Dal, H. A.**
"Semi-stable Active Region Around the Co-Rotation Latitude of Low-Mass Close Binary KIC 7671594"
2024, *Astronomische Nachrichten*.
(DOI: [10.1002/asna.20240115](https://doi.org/10.1002/asna.20240115)).
- Kaya, N. Ö. and Dal, H. A.**
"Chromospheric Activity Behavior of an Eclipsing Binary System KOI 68AB"
2019, *Astronomische Nachrichten*, Vol. 340, p. 539-552.
(DOI: [10.1002/asna.201913631](https://doi.org/10.1002/asna.201913631))



NATIONAL PUBLICATIONS

- Kaya, N. Ö. ve Dal, H. A.**
"Soğuk Yıldız Lekelerinin Boylamsal Göç Hareketinde Görülen Salınımlar"
2023, *Turkish Journal of Astronomy and Astrophysics*, Cilt: 4 Sayı: 3, 377 - 387.
(DOI: [10.55064/tjaa.1199879](https://doi.org/10.55064/tjaa.1199879))
- Kaya, N. Ö. ve Sipahi, E.**
"KOI-7253 Sisteminin Zonklama Doğası"
2023, *Turkish Journal of Astronomy and Astrophysics*, Cilt: 4 Sayı: 3, 121 - 127.
(DOI: [10.55064/tjaa.1199882](https://doi.org/10.55064/tjaa.1199882))
- Kaya, N. Ö. and Dal, H. A.**
"Chromospheric Activity of Mysterious Star KIC 8669092"
2020, *Turkish Journal of Astronomy and Astrophysics*, 1(2): 537-538.
(<https://dergipark.org.tr/tr/download/article-file/1408261>)

NURHAN ÖZLEM KAYA

PhD Candidate

LANGUAGE

TURKISH

ENGLISH

ITALIAN

RESEARCH INTERESTS

- Stellar Spots
- Exoplanet Atmospheres
- Spectrum Analysis
- Photometric Analysis
- Chemical Abundance Analysis



NATIONAL PRESENTATIONS AND SEMINARS

- **Kaya, N. Ö. and Dal, H. A.**
"The Oscillations Seen in the Longitudinal Migration of the Cool Stellar Spots"
XXII. National Astronomy Congress.
Ege University, Izmir / TURKIYE.
6-8 September 2022 (Presentation).
- **Kaya, N. Ö., Sipahi, E. and Önder, A. B.**
"The Pulsating Nature of KOI-7253 System"
XXII. National Astronomy Congress.
Ege University, Izmir / TURKIYE.
6-8 September 2022 (Short Presentation).
- **Kaya, N. Ö. and Dal, H. A.**
"Chromospheric Activity of Mysterious Star KIC 8669092"
XXI. National Astronomy Congress.
University of Erciyes, Kayseri / TURKIYE.
3-7 September 2018 (Short Presentation).
- **Kaya, N. Ö.**
"Present Spectral Studies of Exoplanet Atmospheres"
Ege University, Department of Astronomy and Space Sciences/ Izmir, TURKIYE.
11 February 2022 (Seminar).
- **Kaya, N. Ö.**
"The Oscillations Seen in the Longitudinal Migration of the Cool Stellar Spots"
Ege University, Department of Astronomy and Space Sciences/ Izmir, TURKIYE.
27 December 2019 (Seminar).



CERTIFICATIONS AND EDUCATIONS

- **Education/Remote.**
2024 Sagan Exoplanet Summer Hybrid Workshop Advances In Direct Imaging: From Young Jupiters to Habitable Earths
The NASA Exoplanet Science Institute, California Institute of Technology, Pasadena, CA.
July 22-26, 2024.
- **Education/Remote.**
EXCALIBUR Workshop EXoplanet CALibration and Bayesian Unified Retrieval
The NASA Exoplanet Science Institute, California Institute of Technology, Pasadena, CA.
July 29, 2023.

NURHAN ÖZLEM KAYA

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HOBBIES

PHOTOGRAPHY

MOVIE / TV SERIES

RESEARCH - READING

TRAVELLING

COOKING

DANCING

- Education/Remote.**
*2023 Sagan Exoplanet Summer Hybrid Workshop
Characterizing Exoplanet Atmospheres: The Next
Twenty Years*
The NASA Exoplanet Science Institute, California
Institute of Technology, Pasadena, CA.
July 24-28, 2023.
- Education/Remote.**
COST NanoSpace JWST Training School
La Laguna, Tenerife, Canary Islands (Spain).
June 19-22, 2023.
- Speaker / Writer.**
*22. National Astronomy Congress /
11. National Astronomy Student Congress.*
Ege University, İzmir / TURKIYE.
6-8 September 2022.
- Education / In-person.**
*ATASAM Graduate Information and Application
Program (ALÜP).*
Atatürk University / Astrophysics Research and
Application Center / Erzurum, TURKIYE.
26-28 September 2019.
- Education / In-person.**
1.Graduate Echelle Spectroscopy Summer School.
Ege University Observatory Application and
Research Center, Izmir, TURKIYE.
1-5 July 2019.
- Speaker / Writer.**
*21. National Astronomy Congress /
10. National Astronomy Student Congress.*
Erciyes University, Kayseri / TURKIYE.
3-7 September 2018.
- Counselor.**
TUBITAK Project No: 116B027.
2nd Karşıyaka Science Festival, Izmir / TURKIYE.
13-15 October 2016.
- Education / In-person.**
Undergraduate Students Summer Program (LOYP).
TUBITAK National Observatory (TUG), Antalya /
TURKIYE.
11-15 July 2016.