

## Asst. Prof. Zeynep Demirkol Özkaya

### Personal Information

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### International Researcher IDs

ORCID: 0000-0003-1236-1797

Yoksis Researcher ID: 336292

### Education Information

Undergraduate, Zonguldak Bülent Ecevit University, Faculty Of Engineering, Turkey 2020 - Continues

Doctorate, Bilecik Seyh Edebali University, Institute Of Graduate Programs, Matematik, Turkey 2017 - 2022

Postgraduate, Bilecik Seyh Edebali University, Institute Of Science, Matematik Anabilim Dalı, Turkey 2013 - 2017

Undergraduate, Zonguldak Bülent Ecevit University, Faculty Of Arts And Sciences, Turkey 2009 - 2013

Undergraduate, Gazi University, Fen Fakültesi, Matematik, Turkey 2007 - 2009

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Yarım Tamsayı Ağırlıklı Modüler Formlar Üzerinde Sato-Tate Benzeri Problemler Üzerine, Bilecik Seyh Edebali University, Institute Of Graduate Programs, 2022

Postgraduate, Yarım tamsayı ağırlıklı modüler formlar üzerine, Bilecik Seyh Edebali University, Institute Of Graduate Programs, Matematik, 2017

### Research Areas

Mathematics, Natural Sciences

### Academic Titles / Tasks

Assistant Professor, Van Yüzüncü Yil University, Muradiye Meslek Yüksekokulu, Tıbbi Hizmetler ve Teknikler Bölümü, 2022 - Continues

Lecturer PhD, Van Yüzüncü Yil University, Muradiye Meslek Yüksekokulu, Tıbbi Hizmetler ve Teknikler Bölümü, 2021 - 2022

## Academic and Administrative Experience

Head of Department, Van Yüzüncü Yil University, Muradiye Meslek Yüksekokulu, Tıbbi Hizmetler ve Teknikler Bölümü, 2022 - Continues

Assistant Director of Vocational School, Van Yüzüncü Yil University, Muradiye Meslek Yüksekokulu, Tıbbi Hizmetler Ve Teknikler Bölümü, 2021 - 2024

## Courses

### Associate Degree

Optisyenlik Uygulamaları I, Associate Degree, 2022 - 2023

Çevre Bilinci, Associate Degree, 2022 - 2023

Optik Aletler, Associate Degree, 2022 - 2023

Matematik II, Associate Degree, 2021 - 2022

Matematik 1, Associate Degree, 2021 - 2022

Matematik 1, Associate Degree, 2021 - 2022

Matematik, Associate Degree, 2021 - 2022

## Jury Memberships

Doctoral Examination, Doctoral Examination, Bilecik Şeyh Edebali Üniversitesi, March, 2023

Post Graduate, Post Graduate, Bilecik Şeyh Edebali Üniversitesi, February, 2023

Post Graduate, Post Graduate, Van Yüzüncü Yil Üniversitesi, October, 2022

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **On the distribution of coefficients of half-integral weight modular forms and the Bruinier-Kohnen conjecture**

Inam I., Demirkol Özkaya Z., Tercan E., Wiese G.

TURKISH JOURNAL OF MATHEMATICS, vol.45, pp.2427-2440, 2021 (SCI-Expanded)

## Articles Published in Other Journals

- I. **ON THE PELL-EISENSTEIN SERIES OF POWER  $m$**

Inam I., Özkan E., Özkaya Z., Uysal M.

Bulletin of the Transilvania University of Brasov, Series III: Mathematics and Computer Science, vol.2, no.1, pp.77-82, 2022 (Scopus)

- II. **A Cusp Form Example as An Eta Product**

Demirkol Özkaya Z., Avcı U., Inam İ.

International Journal of Advanced Multidisciplinary Research and Studies, vol.2, no.2, pp.347-349, 2022 (Peer-Reviewed Journal)

- III. **Rankin-Cohen Parantezi Yardımıyla Elde Edilen Hecke Eigenform Örnekleri**

Demirkol Özkaya Z., Inam İ., Tercan E., İrez Aydın B.

Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.13, no.2, pp.772-778, 2020 (Peer-Reviewed Journal)

## Papers Published in Refereed Scientific Meetings

- I. **On The Bruinier-Kohnen Sign Equidistribution Conjecture: Past and Present**  
Demirkol Özkaya Z.  
8th International Congress on Fundamental and Applied Sciences, Antalya, Turkey, 19 - 21 October 2021
- II. **On Sato-Tate Conjecture for Modular Forms**  
Demirkol Özkaya Z.  
8th International Congress on Fundamental and Applied Sciences, Antalya, Turkey, 19 - 21 October 2021
- III. **Yarım Tamsayı Ağırlıklı Modüler Formların Fourier Katsayıları Üzerine**  
Demirkol Özkaya Z.  
33. Ulusal Matematik Sempozyumu, İstanbul, Turkey, 31 August - 03 September 2021, pp.60
- IV. **On Sato-Tate Conjecture for Half Integral Weight of Modular Forms**  
Demirkol Özkaya Z.  
International Workshop on Elliptic Curves, Modular Forms and Langlands Functoriality, Bilecik, Turkey, 10 - 11 May 2018, pp.9
- V. **On Sato-Tate like Problems on Half Integral Weight Modular Forms**  
Demirkol Özkaya Z., Inam I.  
Atelier PARI/GP 2018 , Besançon, France, 15 - 19 January 2018, pp.1-50

## Supported Projects

Demirkol Özkaya Z., TUBITAK Project, Sagemath Uygulamaları İle Temel Bölgeler, 2023 - 2024  
Inam İ., TUBITAK Project, Yarım Tamsayı Ağırlıklı Modüler Formlar Üzerinde Sato-Tate Benzeri Problemler Üzerine, 2018 - 2021

## Memberships / Tasks in Scientific Organizations

Türk Matematik Derneği, Member, 2024 - Continues, Turkey  
Türkiye Kadın Matematikçiler Derneği, Member, 2022 - Continues, Turkey

## Tasks In Event Organizations

Demirkol Özkaya Z., International Workshop on Elliptic Curves, Modular Forms and Langlands Functoriality, Workshop Organization, Bilecik, Turkey, Mayıs 2018

## Mobility Activity

Improving Competencies and Qualifications, Get Education, Urgenç Devlet Üniversitesi, Uzbekistan, 2024 - 2024

## Metrics

Publication: 10  
Citation (WoS): 1  
Citation (Scopus): 3  
H-Index (WoS): 1  
H-Index (Scopus): 1

## Congress and Symposium Activities

8th International Congress on Fundamental and Applied Sciences 2021 (ICFAS2021), Attendee, Antalya, Turkey, 2021  
8th International Congress on Fundamental and Applied Sciences 2021 (ICFAS2021), Attendee, Antalya, Turkey, 2021  
33. Ulusal Matematik Sempozyumu, Attendee, İstanbul, Turkey, 2021  
The PARI/GP day 2021, Attendee, Bordeaux, France, 2021  
International Workshop on Elliptic Curves, Modular Forms and Langlands Functoriality, Attendee, Bilecik, Turkey, 2018  
Atelier PARI/GP 2018, Attendee, Besançon, France, 2018  
International Autumn School on Computational Number Theory, Attendee, İzmir, Turkey, 2017

## **Non Academic Experience**

Açı Kuzey Eğitim Kurumları, Matematik Öğretmeni  
Business Establishment Private, Özel Açı Eğitim Kurumları, Matematik, Matematik Öğretmeni  
Vezirhan İlköğretim Okulu, Matematik Öğretmeni  
National Education Directorate, Vezirhan Ortaokulu, Ortaokul, Matematik Öğretmeni