

## Asst. Prof. EMRAH HASPOLAT

### Personal Information

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### International Researcher IDs

ScholarID: mOV70okAAAAJ

ORCID: 0000-0002-1856-3181

Publons / Web Of Science ResearcherID: G-6426-2019

ScopusID: 57204600804

Yoksis Researcher ID: 301418

### Education Information

Doctorate, University of Northumbria at Newcastle, Uygulamalı Matematik, England 2014 - 2018

Postgraduate, University Of Nottingham {England}, Bilimsel Hesaplama Ve Endüstriyel Matematik, England 2012 - 2013

Undergraduate, Bursa Uludağ University, Fen-Edebiyat Fakültesi, Matematik Bölümü, Turkey 2006 - 2010

### Dissertations

Doctorate, Mathematical Modelling of Arabidopsis Flowering Time Gene Regulatory Network, University of Northumbria at Newcastle, Uygulamalı Matematik, 2018

Postgraduate, Exponential Integrators, University Of Nottingham {England}, Bilimsel Hesaplama Ve Endüstriyel Matematik, 2013

### Academic and Administrative Experience

Faculty Board Member, Bilecik Seyh Edebali University, Fen Fakültesi, Matematik, 2023 - Continues

Bilecik Seyh Edebali University, 2022 - Continues

Bilecik Seyh Edebali University, 2019 - 2022

### Courses

#### Postgraduate

MAT5000 Tez Çalışması, Postgraduate, 2021 - 2022, 2020 - 2021

MAT5013 Dinamik Sistemler II, Postgraduate, 2021 - 2022, 2020 - 2021

MAT5035 İleri Nümerik Analiz, Postgraduate, 2021 - 2022

MAT5012 Dinamik Sistemler I, Postgraduate, 2021 - 2022, 2020 - 2021

MAT5048 Lineer Olmayan Denklem Sistemlerinin Kararlılığı, Postgraduate, 2021 - 2022

MAT7000 Uzmanlık Alan, Postgraduate, 2021 - 2022, 2020 - 2021

MAT544 Dinamik Sistemler 2, Postgraduate, 2019 - 2020

MAT548 Lineer Olmayan Denklem Sistemlerinin Kararlılığı, Postgraduate, 2019 - 2020

MAT545 Anahtarlamalı Lineer Sistemlerin Kararlılığı, Postgraduate, 2019 - 2020

MAT547 Lineer Denklem Sistemlerinin Kararlılığı, Postgraduate, 2019 - 2020

### **Undergraduate**

MAT408 Araştırma Projesi, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020

MAT310 İstatistik ve Olasılık II, Undergraduate, 2021 - 2022, 2020 - 2021

MAT410 Finans Matematiği, Undergraduate, 2021 - 2022

MAT429 Sayısal Yöntemler, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020

BSM207 Diferansiyel Denklemler (Biyosistem Mühendisliği N.Ö.), Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020

İN202 Mühendislik Matematiği, Undergraduate, 2021 - 2022

MAT210 Bilgisayar Programlama II, Undergraduate, 2021 - 2022, 2020 - 2021

MAT201 Diferansiyel Denklemler (Kimya Mühendisliği N.Ö.), Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020

MAT201 Diferansiyel Denklemler (İnşaat Mühendisliği N.Ö.), Undergraduate, 2021 - 2022

MAT309 İstatistik ve Olasılık I, Undergraduate, 2021 - 2022, 2020 - 2021

ZMH109 Matematik (Biyosistem Mühendisliği N.Ö.), Undergraduate, 2020 - 2021

ZMH109 Matematik (Ziraat Mühendisliği Programları N.Ö.), Undergraduate, 2020 - 2021

MAT101 Genel Matematik (Moleküler Biyoloji ve Gen. N.Ö.), Undergraduate, 2019 - 2020

MAT210 Bilgisayar Programlama 2, Undergraduate, 2019 - 2020

MAT320 Nümerik Analiz, Undergraduate, 2019 - 2020

MAT212 Diferansiyel Denklemler 2, Undergraduate, 2018 - 2019

MTM102 Matematik II (Muhasebe ve Finans Yönetimi N.Ö.), Undergraduate, 2018 - 2019

MTM102 Matematik II (Bankacılık ve Finans N.Ö.), Undergraduate, 2018 - 2019

MAT211 Diferansiyel Denklemler 1, Undergraduate, 2018 - 2019

### **Supervised Theses**

HASPOLAT E., Biyokimyasal Reaksiyonların Matematiksel Modellemesi, Postgraduate, S.YILDIRIM(Student), 2023

HASPOLAT E., Covid-19 bulaşıcı hastalığının Türkiye'deki yayılmasının matematiksel modellemesi, Postgraduate, A.YILMAZ(Student), 2022

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

- I. **Deterministic and Stochastic Models of Arabidopsis thaliana Flowering**  
Haspolat E., Huard B., Angelova M.  
Bulletin of Mathematical Biology, vol.81, no.1, pp.277-311, 2019 (SCI-Expanded)

### **Articles Published in Other Journals**

- I. **Temperature-Dependent Parameters in Enzyme Kinetics: Impacts on Enzyme Denaturation**  
Eğilmez H. I., Haspolat E.  
Fundamental journal of mathematics and applications (Online), vol.7, no.4, pp.226-235, 2024 (Peer-Reviewed Journal)
- II. **Stability analysis and numerical simulation of dynamic and fractional SEIRD models for spread of nCOVID-19 in Turkey**  
Yildiz B., Haspolat E., Yilmaz A. H., Önes Z.  
Asian-European Journal of Mathematics, vol.15, no.12, 2022 (ESCI)
- III. **Fractional Order of a New 7D Hyperchaotic Lorenz-like System**  
Haspolat E., Yıldız B.  
Konuralp Journal of Mathematics, vol.9, no.1, pp.76-89, 2021 (Peer-Reviewed Journal)

## Papers Published in Refereed Scientific Meetings

- I. **AN ANALYSES OF MATHEMATICAL MODEL FOR NONCOMPETITIVE ENZYME INHIBITORS**  
HASPOLAT E., YILDIRIM S.  
4. INTERNATIONAL TRAKYA SCIENTIFIC RESEARCH AND INNOVATION CONGRESS, Edirne, Turkey, 20 - 21 July 2024, pp.388-396
- II. **Comparative Analysis of Nonlinear SEIRD and SVEIRD Models to Understand the Dynamics of Covid-19 Spread in Alberta**  
Haspolat E., Yıldız B.  
The Second International Workshop: Constructive Mathematical Analysis, Konya, Turkey, 6 - 08 July 2023, pp.19
- III. **İlköğretim LGS Öğrenci Başarısının Yapay Sinir Ağları Kullanılarak Tahmin Edilmesi**  
ATASAYAR A., HASPOLAT E.  
1.ULUSAL EĞİTİMDE YAPAY ZEKA UYGULAMALARI KONGRESİ, Şanhurfa, Turkey, 28 June 2021
- IV. **Observer Design for the Dynamic Modelling of Arabidopsis Flowering Time Gene Regulatory Network**  
HASPOLAT E., HUARD B., KRISHNA B.  
BEYOND 2019: Computational Science and Engineering Conference, Ankara, Turkey, 9 - 11 September 2019
- V. **Deterministic and Stochastic Stability of Arabidopsis Flowering Model**  
ANGELOVA M., HASPOLAT E., HUARD B.  
2017 SIAM Conference on Dynamical Systems, Utah, United States Of America, 20 - 25 May 2017
- VI. **Stability Analysis of Network Motifs for Arabidopsis Flowering Gene Regulatory Network**  
HASPOLAT E., HUARD B., ANGELOVA M.  
ECMTB 2016, 10th European Conference on Mathematical Theoretical Biology and SMB Annual Meeting, Nottingham, England, 11 - 15 July 2016
- VII. **Gene Expression Modelling by Using Ordinary Differential Equations**  
Haspolat E.  
PhD Summer School: Methods for Mathematical and Empirical Analysis of Microbial Communities, Cambridge, England, 27 - 29 October 2014

## Scholarships

YLSY/Lisans Üstü Eğitim Bursu, Ministry of Education, 2012 - 2018