

## Asst. Prof. EMRAH HASPOLAT

### Personal Information

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### International Researcher IDs

ScholarID: mOV70okAAAAJ

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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

Bilecik Seyh Edebali University, 2022 - Continues

Bilecik Seyh Edebali University, 2019 - 2022

### Courses

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

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

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

MAT410 Finans Matematiği, Undergraduate, 2021 - 2022

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

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

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

İNM202 Mühendislik Matematiği, Undergraduate, 2021 - 2022

MAT5035 İleri Nümerik Analiz, Postgraduate, 2021 - 2022

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

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

MAT5048 Lineer Olmayan Denklem Sistemlerinin Kararlılığı, Postgraduate, 2021 - 2022  
MAT201 Diferansiyel Denklemler (Kimya Mühendisliği N.Ö.), Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020  
MAT7000 Uzmanlık Alan, Postgraduate, 2021 - 2022, 2020 - 2021  
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  
MAT544 Dinamik Sistemler 2, Postgraduate, 2019 - 2020  
MAT101 Genel Matematik (Moleküler Biyoloji ve Gen. N.Ö.), Undergraduate, 2019 - 2020  
MAT210 Bilgisayar Programlama 2, Undergraduate, 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  
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

## Advising 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. **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)
- II. **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)

## Refereed Congress / Symposium Publications in Proceedings

- I. **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
- II. **İlköğretim LGS Öğrenci Başarısının Yapay Sinir Ağları Kullanılarak Tahmin Edilmesi**

ATASAYAR A., HASPOLAT E.

1.ULUSAL EĞİTİMDE YAPAY ZEKA UYGULAMALARI KONGRESİ, Şanlıurfa, Turkey, 28 June 2021

**III. 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

**IV. 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

**V. 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

**VI. 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