

## Öğr. Gör. DENİZ ALAÇAM

### Kişisel Bilgiler

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### Uluslararası Araştırmacı ID'leri

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Publons / Web Of Science ResearcherID: AAH-33994-2021

ScopusID: 56724275700

Yoksis Araştırmacı ID: 291337

### Eğitim Bilgileri

Doktora, Georgia State University, School of Arts and Sciences, Mathematics and Statistics, Amerika Birleşik Devletleri  
2012 - 2018

Yüksek Lisans, Boston University, School of Arts and Sciences, Mathematics, Amerika Birleşik Devletleri 2009 - 2011

Lisans, Ankara Üniversitesi, Fen Fakültesi, Matematik Bölümü, Türkiye 2003 - 2007

### Yabancı Diller

İngilizce, C2 Ustalık

### Yaptığı Tezler

Doktora, Modeling rhythm generation in swim central pattern generator of Melibe Leonina, Georgia State University,  
2017

### Araştırma Alanları

Diferansiyel denklemler, Dinamik Sistemler ve Ergodik Kuramı

### Akademik Unvanlar / Görevler

Öğretim Görevlisi, Bursa Uludağ Üniversitesi, FEN-EDEBİYAT FAKÜLTESİ, MATEMATİK, 2018 - Devam Ediyor

### Verdiği Dersler

Diferansiyel ve İntegral Hesap, Lisans, 2017 - 2018

Matematik I, Lisans, 2017 - 2018

Temel Matematik, Ön Lisans, 2017 - 2018

Temel Matematik II, Lisans, 2017 - 2018

Bilgisayara Giriş, Lisans, 2017 - 2018

Matematik II, Lisans, 2017 - 2018

## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **A method for capturing dynamic spectral coupling in resting fMRI reveals domain-specific patterns in schizophrenia**  
Alacam D., Miller R., Agcaoglu O., Preda A., Ford J., Calhoun V.  
FRONTIERS IN NEUROSCIENCE, cilt.17, 2023 (SCI-Expanded)
- II. **A mathematical model of *Chenopodium album* L. dynamics under copper-induced stress**  
Gonzalez-Ramirez L. R., ALAÇAM D., AKPINAR A.  
ECOLOGICAL MODELLING, cilt.469, 2022 (SCI-Expanded)
- III. **Dynamics and bifurcations in multistable 3-cell neural networks**  
Collens J., Pusuluri K., Kelley A., Knapper D., Xing T., Basodi S., ALAÇAM D., Shilnikov A. L.  
CHAOS, cilt.30, sa.7, 2020 (SCI-Expanded)
- IV. **Making a Swim Central Pattern Generator Out of Latent Parabolic Bursters**  
Alacam D., Shilnikov A.  
INTERNATIONAL JOURNAL OF BIFURCATION AND CHAOS, cilt.25, sa.7, 2015 (SCI-Expanded)

## Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **A Multi-dimensional Joint ICA Model with Gaussian Copula**  
Agcaoglu O., Silva R. F., Alacam D., Calhoun V.  
Workshops hosted by the 22nd International Conference on Image Analysis and Processing, ICIAP 2023, Udine, İtalya, 11 - 15 Eylül 2023, cilt.14366, ss.152-163
- II. **Dynamical Systems and Bifurcation Theory**  
ALAÇAM D.  
Complex Systems and Data Science Workshop, İstanbul, Türkiye, 18 - 19 Mayıs 2019
- III. **Intrinsic Mechanisms for Rhythm Generations in Central Pattern Generators**  
ALAÇAM D., Shilnikov A.  
School and Workshop on Patterns of Synchrony: Chimera States, Trieste, İtalya, 6 - 18 Mayıs 2019
- IV. **Modeling Sea Slug Swim Central Pattern Generators of *Melibe Leonina***  
ALAÇAM D., Shilnikov A.  
Volga Neuroscience Meeting, Nizhniy-Novgorod, Rusya, 22 - 27 Temmuz 2018
- V. **Modeling Sea Slug Swim Central Pattern Generators of *Melibe Leonina*,**  
ALAÇAM D., Shilnikov A.  
Dynamics Bifurcations Chaos V, Nizhniy-Novgorod, Rusya, 16 - 20 Temmuz 2018
- VI. **Bifurcation Theory and Phase-Lag Variance in 3-Node Neuronal Networks**  
Collens J., ALAÇAM D., Kelly A., Xing T., Shilnikov A.  
SIAM Conference on Applications of Dynamical Systems, Salt Lake City, Amerika Birleşik Devletleri, 21 - 25 Mayıs 2017
- VII. **Saga of Modeling *Melibe* Swim CPG,**  
ALAÇAM D., Shilnikov A.  
SIAM Conference on Applications of Dynamical Systems, Salt Lake City, Amerika Birleşik Devletleri, 21 - 25 Mayıs 2017
- VIII. **Network Bursting in Sea Slug Swim CPGs**  
ALAÇAM D., Katz P., Sakurai A., Shilnikov A.  
IEEE International Workshop on Complex Systems and Networks, Atlanta, Amerika Birleşik Devletleri, 14 - 15 Kasım 2016

- IX. **Polyrhythmic and recurrent pattern generation in three-node CPG networks**  
Collens J., ALAÇAM D., Knapper D., Xing T., Kelly A., Schwabedal J., Shilnikov A.  
Emory University Poster Padooza, Atlanta, Amerika Birleşik Devletleri, 05 Ekim 2016
- X. **Stability and bifurcations of rhythms in neuronal networks**  
ALAÇAM D., Shilnikov A.  
American Institute of Mathematical Science Conference, Orlando, Amerika Birleşik Devletleri, 1 Temmuz - 05 Mayıs 2016
- XI. **Network Bursting in Swim CPGs**  
ALAÇAM D., Shilnikov A.  
rain Behavior AnnualRetreat, Atlanta, Amerika Birleşik Devletleri, 22 Nisan 2016
- XII. **Phase-lag variance and bifurcation theory in neural networks**  
Collens J., ALAÇAM D., Knapper D., Shilnikov A.  
Brain Behavior Annual Retreat, Atlanta, Amerika Birleşik Devletleri, 22 Nisan 2016
- XIII. **Network Bursting in the Melibe Swim CPG**  
ALAÇAM D., Shilnikov A.  
Annual Meeting of the Society for Mathematical Biology, Atlanta, Amerika Birleşik Devletleri, 30 Haziran - 03 Temmuz 2015
- XIV. **Intrinsic Mechanisms for Pattern Generation in Three-Node Networks**  
Collens J., Kelly A., ALAÇAM D., Xing T., Knapper D., Schwabedal J., Shilnikov A.  
SIAM Conference on Applications of Dynamical Systems, Salt Lake City, Amerika Birleşik Devletleri, 17 - 21 Mayıs 2015
- XV. **Making Half Center Oscillators Out of Parabolic Non-Bursters**  
ALAÇAM D., Shilnikov A.  
SIAM Conference onApplications of Dynamical Systems, Salt Lake City, 17 - 21 Mayıs 2015
- XVI. **Parabolic Bursting in Swim CPG Models**  
ALAÇAM D., Shilnikov A.  
Georgia State University Brain BehaviorAnnual Retreat, Atlanta, Amerika Birleşik Devletleri, 20 Nisan 2015
- XVII. **Parabolic Network Bursting in Inhibitory Neural Circuits**  
ALAÇAM D., Shilnikov A.  
Georgia Scientific ComputingSymposium, Atlanta, Amerika Birleşik Devletleri, 28 Şubat 2015
- XVIII. **Network Bursting in Inhibitory Neural Circuits,**  
ALAÇAM D., Shilnikov A.  
SIAM Conference on the Life Sciences, Charlottetown, Kanada, 4 - 07 Ağustos 2014
- XIX. **Latent Bursters in Swim CPGs**  
ALAÇAM D., Shilnikov A.  
Brain Modes, Atlanta, Amerika Birleşik Devletleri, 10 Aralık 2015 - 11 Aralık 2011

## Metrikler

Yayın: 23

Atf (WoS): 6

Atf (Scopus): 7

H-İndeks (WoS): 1

H-İndeks (Scopus): 1