

## Asst. Prof. FERHAT ŞAHİNKAYA

### Personal Information

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### International Researcher IDs

ScholarID: Pe6D0QoAAAAJ

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Yoksis Researcher ID: 105438

### Education Information

Doctorate, Ondokuz Mayıs University, Turkey 2017 - 2022

Postgraduate, Yozgat Bozok University, Mühendislik-Mimarlık Fakültesi, İnşaat Mühendisliği Bölümü, Turkey 2013 - 2016

### Dissertations

Doctorate, Investigation of the behavior of soils improved with stone columns under earthquake effect, Ondokuz Mayıs University, Lisansüstü Eğitim Enstitüsü, İnşaat Mühendisliği Anabilim Dalı, 2022

Postgraduate, Yüzen taş kolonlar ile iyileştirilmiş zeminlerin sismik yükler altındaki davranışının sayısal olarak incelenmesi, Yozgat Bozok University, Mühendislik-Mimarlık Fakültesi, İnşaat Mühendisliği Bölümü, 2016

### Research Areas

Civil Engineering, Foundation Engineering, Soil Mechanics, Underground Construction, Deep Excavation, Ground Improvement, Soil Dynamics, Geotechnical Engineering, Engineering and Technology

### Academic Titles / Tasks

Assistant Professor, Yozgat Bozok University, Mühendislik-Mimarlık Fakültesi, İnşaat Mühendisliği, 2023 - Continues

Research Assistant, Yozgat Bozok University, Mühendislik-Mimarlık Fakültesi, İnşaat Mühendisliği, 2013 - 2023

Research Assistant, Kahramanmaraş Sutcu Imam University, Faculty Of Engineering-Architecture, Department Of Civil Engineering, 2012 - 2013

### Academic and Administrative Experience

Deputy Head of Department, Yozgat Bozok University, Mühendislik-Mimarlık Fakültesi, İnşaat Mühendisliği, 2023 - Continues

Head of Department, Yozgat Bozok University, Mühendislik-Mimarlık Fakültesi, İnşaat Mühendisliği, 2023 - Continues

### Courses

Postgraduate, 2024 - 2025, 2023 - 2024  
Undergraduate, 2024 - 2025, 2023 - 2024  
Tunnels, Undergraduate, 2023 - 2024  
Undergraduate, 2024 - 2025, 2023 - 2024  
Undergraduate, 2023 - 2024  
Undergraduate, 2024 - 2025, 2023 - 2024  
Postgraduate, 2024 - 2025, 2023 - 2024  
Undergraduate, 2023 - 2024  
Postgraduate, 2024 - 2025, 2023 - 2024  
Undergraduate, 2024 - 2025, 2023 - 2024

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

- I. **Numerical analysis of a finite slope improved with stone columns under the effect of earthquake force**  
ÇADIR C. C., Vekli M., ŞAHİNKAYA F.  
NATURAL HAZARDS, vol.106, no.1, pp.173-211, 2021 (SCI-Expanded)
- II. **Numerical analysis under seismic loads of soils improvement with floating stone columns**  
ŞAHİNKAYA F., Vekli M., ÇADIR C. C.  
NATURAL HAZARDS, vol.88, no.2, pp.891-917, 2017 (SCI-Expanded)
- III. **Effects of iron and chrome slag on the index compaction and strength parameters of clayey soils**  
Vekli M., ÇADIR C. C., ŞAHİNKAYA F.  
ENVIRONMENTAL EARTH SCIENCES, vol.75, no.5, 2016 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Investigation of The Effect of Asphalt Layer and Sub-Base Layer Thicknesses on Pavement Surface Deformation by The Finite Element Method**  
Bayazit M., Şahinkaya F.  
JOURNAL OF SCIENCE, TECHNOLOGY AND ENGINEERING RESEARCH, no.VOL. 5 NO. 1 (2024), pp.24-33, 2024  
(Peer-Reviewed Journal)
- II. **Displacement Analysis of Soft Soils under Earthquake Effect**  
ŞAHİNKAYA F.  
International Journal of Advanced Natural Sciences and Engineering, 2024 (Peer-Reviewed Journal)
- III. **Taş Kolonlarla İyileştirilen Yumuşak Zeminlerin Deprem Etkisi Altındaki Deplasman Analizi**  
ŞAHİNKAYA F., DEMİR G.  
Avrupa Bilim ve Teknoloji Dergisi, 2022 (Peer-Reviewed Journal)
- IV. **Taş Kolonlarla İyileştirilen Zeminlerin Deprem Etkisinde Taşıma Gücü Analizi: 2020 İzmir Depremi Örneği**  
ŞAHİNKAYA F., DEMİR G.  
Avrupa Bilim ve Teknoloji Dergisi, no.28, 2021 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Taş Kolonlarla Güçlendirilen Tabakalı Zeminlerin Deprem Yükleri Altındaki Davranışının İncelenmesi**  
ŞAHİNKAYA F., ÇADIR C. C., DEMİR G., KAYA Z.  
Zemin Mekaniği ve Geoteknik Mühendisliği 18. Ulusal Konferansı, Kayseri, Turkey, 29 - 30 September 2022
- II. **Dolgu Şevi Altındaki Taş Kolonlarla Güçlendirilen Yumuşak Zeminlerin Deprem Etkisi Altındaki**

## **Davranışının İncelenmesi**

ÇADIR C. C., ŞAHİNKAYA F.

2. Ulusal Genç Geoteknik Mühendisleri Sempozyumu, Kayseri, Turkey, 28 September 2022

- III. **Seismic Bearing Capacity Analysis of Soil Improvement with Stone Columns**  
ŞAHİNKAYA F., DEMİR G.  
14th International Congress on Advances in Civil Engineering (ACE 2020-21), İstanbul, Turkey, 06 September 2021
- IV. **Analysis of The Behavior of Slopes Improved with Stone Columns During Earthquakes**  
ÇADIR C. C., ŞAHİNKAYA F.  
14th International Congress on Advances in Civil Engineering (ACE 2020-21), İstanbul, Turkey, 06 September 2021
- V. **Slope stability analysis and modelling with artificial neural networks (Özet metin olarak hazırlanmıştır ve Murat AY sunmuştur.)**  
ÇADIR C. C., ŞAHİNKAYA F., AY M.  
02nd International Conference on Civil and Environmental Engineering, 2017, Nevşehir, Nevşehir, Turkey, 8 - 10 May 2017, pp.2704
- VI. **Analysis of bearing capacity and modelling with artificial neural networks (Özet metin olarak hazırlanmıştır ve Murat AY sunmuştur.)**  
ŞAHİNKAYA F., ÇADIR C. C., AY M.  
02nd International Conference on Civil and Environmental Engineering, 2017, Nevşehir, Nevşehir, Turkey, 8 - 10 May 2017, pp.1919
- VII. **The Effect of Pumice Dust and Marble Dust on Soil Stabilization**  
VEKLİ M., ÇADIR C. C., ŞAHİNKAYA F.  
1st International Black Sea Congress on Environmental Sciences (IBCESS-2016), 31 August - 03 September 2016
- VIII. **Numerical Investigation of Improved Soft Soil by Floating Stone Columns Behavior under Seismic Loads**  
VEKLİ M., ŞAHİNKAYA F., ÇADIR C. C.  
12th International Congress on Advances in Civil Engineering (ACE2016), 21 - 23 September 2016

## **Supported Projects**

ŞAHİNKAYA F., ÇADIR C. C., Project Supported by Higher Education Institutions, Kenevir Lifleri ile Güçlendirilen Mermer Tozu Katkılı Yumuşak Kil Zeminlerin Davranışının İncelenmesi, 2022 - 2024

ŞAHİNKAYA F., ÇADIR C. C., Project Supported by Higher Education Institutions, Taş Kolon İle İyileştirilmiş Şevlerin Sonlu Eleman Yöntemi ile Sismik Analizi, 2014 - 2016

## **Scientific Refereeing**

OMU Journal of Engineering Sciences and Technology, Other Indexed Journal, October 2024

SAKARYA UNIVERSITY JOURNAL OF SCIENCE, Other Indexed Journal, July 2024

## **Metrics**

Publication: 15

Citation (WoS): 4

Citation (Scopus): 28

H-Index (WoS): 1

H-Index (Scopus): 3

## **Non Academic Experience**

Business Establishment Private, EMİTAŞ, Şantiye