

## Asst. Prof. AHMET TALHA GEZGİN

### Personal Information

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### International Researcher IDs

ORCID: 0000-0002-9725-6015

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### Education Information

Doctorate, Bogazici University, Institute Of Science, The Department of Civil Engineering, Turkey 2015 - 2021

Postgraduate, Bogazici University, Institute Of Science, The Department of Civil Engineering, Turkey 2012 - 2015

Undergraduate, Bogazici University, Faculty Of Engineering, Department Of Civil Engineering, Turkey 2007 - 2012

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, DISCRETE ELEMENT MODELLING OF SOIL - PILE INTERACTION WITH EMPHASIS ON SOIL CHARACTERISTICS AND PILE INSTALLATION METHODOLOGY, Bogazici University, Institute Of Science, 2021

Postgraduate, Dilatancy based calculation of lateral earth thrust and the locked-in stress concept, Bogazici University, Institute Of Science, The Department of Civil Engineering, 2015

### Research Areas

Civil Engineering, Geotechnical, Engineering and Technology

### Academic Titles / Tasks

Assistant Professor, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, İNŞAAT MÜHENDİSLİĞİ, 2022 - Continues

Research Assistant, Bogazici University, Faculty Of Engineering, Department Of Civil Engineering, 2013 - 2021

### Courses

SOIL MECHANICS I, Undergraduate, 2022 - 2023

GEOTECHNICAL EARTHQUAKE ENGINEERING, Postgraduate, 2022 - 2023

PILE FOUNDATIONS, Undergraduate, 2021 - 2022

GEOLOGY FOR CIVIL ENGINEERS, Undergraduate, 2021 - 2022

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

- I. **Discrete-element modelling of pile penetration to reveal influence of soil characteristics**  
Gezgin A. T., Soltanbeigi B., Cinicioglu O.  
PROCEEDINGS OF THE INSTITUTION OF CIVIL ENGINEERS-GEOTECHNICAL ENGINEERING, vol.175, no.4, pp.365-382, 2022 (SCI-Expanded)
- II. **Multi-scale investigation of active failure for various modes of wall movement**  
Gezgin A. T., Soltanbeigi B., Altunbas A., Cinicioglu O.  
FRONTIERS OF STRUCTURAL AND CIVIL ENGINEERING, vol.15, no.4, pp.961-979, 2021 (SCI-Expanded)
- III. **Determination of Passive Failure Surface Geometry for Cohesionless Backfills**  
Soltanbeigi B., Altunbas A., Gezgin A. T., Cinicioglu O.  
PERIODICA POLYTECHNICA-CIVIL ENGINEERING, vol.64, no.4, pp.1100-1110, 2020 (SCI-Expanded)
- IV. **Consideration of locked-in stresses during backfill preparation**  
Gezgin A. T., Cinicioglu O.  
GEOMECHANICS AND ENGINEERING, vol.18, no.3, pp.247-258, 2019 (SCI-Expanded)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Kil Zeminlerin Şişme Mekanizması ve Şişmeye Yönelik Hesap Yaklaşımlarının Sonlu Elemanlar Modeliyle Değerlendirilmesi**  
ŞERAFETTİNOĞLU M., YAZICI N., GEZGİN A. T., DOĞANGÜN A.  
International Ankara Congress on Multidisciplinary Studies-VI, Ankara, Turkey, 14 October 2023, vol.1, pp.856-866
- II. **Permeasyon Enjeksiyonu, Çatlatma Enjeksiyonu ve Kompaksiyon Enjeksiyon Yöntemlerinin Hesap ve Tasarım Kriterleri Açısından İrdelenmesi**  
YAZICI N., ŞERAFETTİNOĞLU M., GEZGİN A. T., DOĞANGÜN A.  
International Ankara Congress on Multidisciplinary Studies-VI, Ankara, Turkey, 14 October 2023, vol.1, pp.849-855
- III. **Techniques to Reduce Computational Time in Discrete Element Method: Penetration Modelling in Granular Soils**  
Gezgin A. T., Soltanbeigi B., Çinicioglu Ö.  
Zemin Mekaniği Ve Geoteknik Mühendisliği 18. Ulusal Kongresi, Kayseri, Turkey, 29 - 30 September 2022, pp.347-359
- IV. **Pasif Zemin İtkisinin Genleşim Açısına Bağlı Hesaplanması ve Kenetlenme Gerilimi Kavramı**  
GEZGİN A. T., ÇİNİCİOĞLU Ö.  
6.Geoteknik Sempozyumu, Adana, Turkey, 26 - 27 November 2015
- V. **Characterization of active failure wedge for cohesionless soils**  
ÇİNİCİOĞLU Ö., ALTUNBAŞ A., SOLTANBEİĞİ B., GEZGİN A. T.  
Proceedings of the XVI ECSMGE Geotechnical Engineering for Infrastructure and Development, Edinburgh, Saint Helena, 13 - 17 September 2015, pp.3135-3140
- VI. **Dilatancy Based Calculation of Passive Earth Thrust and the Locked-in Stress Concept**  
GEZGİN A. T., ÇİNİCİOĞLU Ö.  
24th European Young Geotechnical Engineers Conference, Durham, Canada, 11 - 12 September 2015
- VII. **Backfill failure surfaces and failure displacements during active failure states**  
SOLTANBEİĞİ B., GEZGİN A. T., ALTUNBAŞ A., ÇİNİCİOĞLU Ö.  
11th International Congress on Advances in Civil Engineering (ACE), İstanbul, Turkey, 21 October 2014
- VIII. **Aktif Zemin İtkisinin Genleşim Açısına Bağlı Hesaplanması**  
GEZGİN A. T., ÇİNİCİOĞLU Ö.  
Zemin Mekaniği ve Temel Mühendisliği Onbeşinci Ulusal Kongresi, Ankara, Turkey, 16 - 17 October 2014

- IX. Influences of Backfill Properties and Stress State on Ultimate Earth Pressure Coefficients**  
ALTUNBAŞ A., GEZGİN A. T., SOLTANBEİĞİ B., ÇİNİCİOĞLU Ö.  
50th Danube - European Conference on Geotechnical Engineering, Viyana, Austria, 9 - 11 September 2014
- X. Shear Band Localization behind Retaining Walls**  
ALTUNBAŞ A., SOLTANBEİĞİ B., GEZGİN A. T., ÇİNİCİOĞLU Ö.  
23rd European Young Geotechnical Engineers Conference, Barcelona, Spain, 2 - 05 September 2014, pp.201-204
- XI. Dilatancy based similitude of small-scale 1g models and prototypes for cohesionless soils**  
ÇİNİCİOĞLU Ö., ALTUNBAŞ A., SOLTANBEİĞİ B., GEZGİN A. T.  
International Symposium on Geomechanics from Micro to Macro, Cambridge, Canada, 1 - 03 September 2014, pp.1641-1645
- XII. Kohezyonsuz Dolguların Aktif ve Pasif Göçme Durumlarında Oluşan Kayma Yüzeyleri ve Yatay toprak Basınç Katsayıları**  
SOLTANBEİĞİ B., ALTUNBAŞ A., GEZGİN A. T., ÇİNİCİOĞLU Ö.  
Zemin Mekaniği ve Temel Mühendisliği 2. Özel Konulu Sempozyumu, Antalya, Turkey, 24 - 25 April 2014
- XIII. Variation of the Coefficient of Lateral Earth Pressure with Deformation for Cohesionless Backfills**  
ALTUNBAŞ A., ABZAL M., GEZGİN A. T., ÇİNİCİOĞLU Ö.  
8th International Conference on Physical Modelling In Geotechnics, Perth, Australia, 14 - 17 January 2014, pp.905-910
- XIV. Aktif ve Pasif Göçme Durumlarında Dolgu Kayma Yüzeyleri ve Göçme Mesafeleri**  
ABZAL M., ALTUNBAŞ A., GEZGİN A. T., ÇİNİCİOĞLU Ö.  
5. Geoteknik Sempozyumu, Adana, Turkey, 5 - 07 December 2013

## Supported Projects

Gezgin A. T., Çinicioglu S. F., TUBITAK Project, Multi-scale Investigation of Soil – Pile Interaction for Wind Turbines using Discrete Element Method, 2021 - 2023

Gezgin A. T., Çinicioglu Ö., TUBITAK Project, Investigation of Influences of Pile Installation Technique on Behavior of Laterally Loaded Piles Using Discrete Element Method , 2019 - 2021

Çinicioglu Ö., TUBITAK Project, Effect of Stress History on Strength Parameters and Lateral Earth Pressure Coefficients in Cohesionless Soils, 2012 - 2014

## Metrics

Publication: 18

Citation (WoS): 20

Citation (Scopus): 21

H-Index (WoS): 3

H-Index (Scopus): 3