

## Assoc. Prof. Rıza Secer Orkun Keskin

### Personal Information

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### International Researcher IDs

ScholarID: KkYoyGEAAAAJ

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Publons / Web Of Science ResearcherID: C-4037-2019

ScopusID: 55951449300

Yoksis Researcher ID: 191269

### Biography

Dr. Rıza Secer Orkun Keskin graduated from Middle East Technical University (METU), Department of Civil Engineering, in 2000. He earned his MSc from METU, Department of Civil Engineering, in 2002. He got a full scholarship for Phd abroad from Higher Education Council in 2003 and joined Yıldız Technical University (YTU), Department of Civil Engineering, as a requirement of the scholarship. He completed his PhD degree at Cornell University, USA, with a major in Structural Engineering and a minor in Applied Mathematics in 2008. After working at YTU, Department of Civil Engineering, from 2008 until 2018 as Teaching & Research Assistant and Assistant Professor, he joined TED University, Department of Civil Engineering, in September 2018 as Assistant Professor. He was appointed as Associate Professor in November 2019. He has been the Head of the Department since July 2020.

### Education Information

Doctorate, Cornell University, College of Engineering, Civil and Environmental Engineering, United States Of America  
2004 - 2008

Postgraduate, Middle East Technical University, Faculty Of Engineering, Department Of Civil Engineering, Turkey 2000 -  
2002

Undergraduate, Middle East Technical University, Faculty Of Engineering, Department Of Civil Engineering, Turkey 1995 -  
2000

### Foreign Languages

English

### Dissertations

Doctorate, A probability-based numerical method for estimating effective diffusion coefficient in concrete, Cornell University, College of Engineering, Civil and Environmental Engineering, 2008

Postgraduate, Behavior of brick infilled reinforced concrete frames strengthened by CFRP reinforcement: Phase I, Middle East Technical University, Faculty Of Engineering, Department Of Civil Engineering, 2002

## Research Areas

Structural Engineering, Concrete Structures

## Academic Titles / Tasks

Associate Professor, TED University, Faculty of Engineering, Department of Civil Engineering, 2019 - Continues

Assistant Professor, TED University, Faculty Of Engineering, Department Of Civil Engineering, 2018 - 2019

Assistant Professor, Yildiz Technical University, Faculty Of Civil Engineering, Civil Engineering Department, 2017 - 2018

## Academic and Administrative Experience

Head of Department, TED University, Faculty Of Engineering, Department Of Civil Engineering, 2020 - Continues

Fakülte Kurulu Üyesi, TED University, Faculty Of Engineering, Department Of Civil Engineering, 2020 - Continues

## Courses

Engineering Mechanics II, Undergraduate, 2023 - 2024, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019

Introduction to Mechanics of Materials, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022

Engineering Mechanics I, Undergraduate, 2022 - 2023, 2020 - 2021, 2019 - 2020, 2018 - 2019

Summer Practice II, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021

Structural Analysis, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020

Summer Practice I, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021

Introduction to Probability and Statistics for Engineers, Undergraduate, 2022 - 2023

Reinforced Concrete Fundamentals, Undergraduate, 2021 - 2022, 2019 - 2020, 2018 - 2019

Uncertainty and Decision Making, Postgraduate, 2021 - 2022

Civil Engineering Design, Undergraduate, 2020 - 2021

Summer Practice II, Undergraduate, 2018 - 2019

Civil Engineering Design, Undergraduate, 2018 - 2019

Engineering Mechanics I, Undergraduate, 2018 - 2019

Engineering Mechanics II, Undergraduate, 2018 - 2019

Reinforced Concrete Fundamentals, Undergraduate, 2018 - 2019

## Advising Theses

Arslan G., Keskin R. S. O., Shear Strength of Steel Fiber Reinforced Concrete Deep Beams, Doctorate, M.İrfan(Student), 2022

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

### I. Shear strength of steel fiber reinforced concrete deep beams without stirrups

Birincioglu M. I., Keskin R. S. O., Arslan G.

ADVANCES IN CONCRETE CONSTRUCTION, vol.13, no.1, pp.1-10, 2022 (SCI-Expanded)

### II. Influence of polypropylene fibres on the shear strength of RC beams with web reinforcement

ARSLAN G., Keskin R. S. O.

EUROPEAN JOURNAL OF ENVIRONMENTAL AND CIVIL ENGINEERING, vol.23, no.10, pp.1222-1234, 2019 (SCI-Expanded)

- III. **Shear strength of steel-fibre-reinforced concrete beams with web reinforcement**  
ARSLAN G., Keskin R. S. O., Birincioglu M. I.  
PROCEEDINGS OF THE INSTITUTION OF CIVIL ENGINEERS-STRUCTURES AND BUILDINGS, vol.172, no.4, pp.267-277, 2019 (SCI-Expanded)
- IV. **Influence of CFRP on the shear strength of RC and SFRC beams**  
Keskin R. S. O., ARSLAN G., Sengun K.  
CONSTRUCTION AND BUILDING MATERIALS, vol.153, pp.16-24, 2017 (SCI-Expanded)
- V. **AN EXPERIMENTAL STUDY ON THE SHEAR STRENGTH OF SFRC BEAMS WITHOUT STIRRUPS**  
ARSLAN G., Keskin R. S. O., Ulusoy S.  
JOURNAL OF THEORETICAL AND APPLIED MECHANICS, vol.55, no.4, pp.1205-1217, 2017 (SCI-Expanded)
- VI. **Shear behaviour of polypropylene fiber-reinforced-concrete beams without stirrups**  
ARSLAN G., Keskin R. S. O., Ozturk M.  
PROCEEDINGS OF THE INSTITUTION OF CIVIL ENGINEERS-STRUCTURES AND BUILDINGS, vol.170, no.3, pp.190-198, 2017 (SCI-Expanded)
- VII. **Predicting shear strength of SFRC slender beams without stirrups using an ANN model**  
Keskin R. S. O.  
STRUCTURAL ENGINEERING AND MECHANICS, vol.61, no.5, pp.605-615, 2017 (SCI-Expanded)
- VIII. **Predicting diagonal cracking strength of RC slender beams without stirrups using ANNs**  
Keskin R. S. O., ARSLAN G.  
COMPUTERS AND CONCRETE, vol.12, no.5, pp.697-715, 2013 (SCI-Expanded)
- IX. **Size effects in modeling diffusivity of hardened mortar**  
Keskin R. S. O., Hover K. C., Grigoriu M.  
COMPUTERS & STRUCTURES, vol.89, no.9-10, pp.713-723, 2011 (SCI-Expanded)
- X. **A probability-based method for calculating effective diffusion coefficients of composite media**  
Keskin R. S. O., Grigoriu M.  
PROBABILISTIC ENGINEERING MECHANICS, vol.25, no.2, pp.249-254, 2010 (SCI-Expanded)

### Articles Published in Other Journals

- I. **Predicting shear strength of reinforced concrete slender beams without shear reinforcement using artificial neural networks**  
Keskin R. S. O.  
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.23, no.3, pp.193-202, 2017 (ESCI)

### Refereed Congress / Symposium Publications in Proceedings

- I. **Retrofitting SFRC beams by using CFRP**  
Keskin R. S. O., Şengün K., Arslan G.  
ICONTEs 2017: International Conference on Technology, Engineering and Science, 26 October 2016 - 29 October 2017, vol.1, pp.310-315
- II. **The behavior of PFRC beams with and without web reinforcement**  
Öztürk M., Keskin R. S. O., Arslan G.  
ICONTEs 2017: International Conference on Technology, Engineering and Science, 26 - 29 October 2017, vol.1, pp.347-352
- III. **Influence of flexural reinforcement on the shear strength of RC beams without stirrups**  
Arslan G., Keskin R. S. O.  
ICCSGE 2015: 17th International Conference on Concrete, Structural and Geotechnical Engineering, 6 - 07 August 2015, pp.82-88

- IV. **Effectiveness of FRP strengthening on earthquake performance of a RC infilled frame structure**  
Börekçi M., Keskin R. S. O., Kırçıl M. S.  
Vienna Congress on Recent Advances in Earthquake Engineering and Structural Dynamics 2013 (VEESD 2013), 28 - 30 August 2013
- V. **A probability-Based method for estimating effective diffusivity with application to mortar**  
Keskin R. S. O., Grigoriu M., Hover K.  
14th International Conference on Civil, Structural and Environmental Engineering Computing, CC 2013, Cagliari, Italy, 3 - 06 September 2013, vol.102
- VI. **Effective properties by a local method and reduced order models**  
Grigoriu M., Keskin R. S. O.  
Proceedings of 3rd Canadian Conference on Nonlinear Solid Mechanics, 25 - 29 June 2008, vol.2, pp.291-300

## **Supported Projects**

Keskin R. S. O., Özcebe G., Kale Ö., Numanoğlu Genç A., Aktaş C. B., Akgüner C., Gödek Hayal N. P., Aydın M. F., EU Supported Other Project, BORIS2 - Cross BOrder RiSk assessment for increased prevention and preparedness in Europe: way forward, 2024 - 2025

Keskin R. S. O., Akgüner C., Aktaş C. B., Pamuk Ö. C., Aydın M. F., TÜBİTAK Project, 2009 Yılında Güçlendirme Uygulanmış Binada Hasar Tespit Çalışması, 2023 - 2023

## **Memberships / Tasks in Scientific Organizations**

American Concrete Institute, Member, 2020 - Continues, Turkey

The Turkish Chamber of Civil Engineers, Member, 2000 - Continues, Turkey

## **Tasks In Event Organizations**

Keskin R. S. O., 18. Teknik Kongre ve Sergisi, Scientific Congress, İstanbul, Turkey, Kasım 2022

## **Congress and Symposium Activities**

Deprem Araştırmaları Projeleri Sanal Konferansı, Attendee, Ankara, Turkey, 2023

8. Structural Mechanics Laboratories Workshop, Audience, Eskişehir, Turkey, 2022