

# **Res. Asst. PhD NAZİLE BUĞURCAN DİŞİBÜYÜK**

## **Personal Information**

**Office Phone:** [+90 0232 301 8605](tel:+9002323018605) Extension: 18605

**Email:** bugurcan.ruzgar@deu.edu.tr

**Web:** <https://avesis.deu.edu.tr/bugurcan.ruzgar>

**Address:** bugurcan.ruzgar@deu.edu.tr

## **International Researcher IDs**

ScholarID: 9PWt9XoAAAAJ

ORCID: 0000-0002-8339-1304

Publons / Web Of Science ResearcherID: S-4858-2019

ScopusID: 57194572632

Yoksis Researcher ID: 52906

## **Education Information**

Doctorate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Matematik (Dr), Turkey 2012 - 2017

Postgraduate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Turkey 2009 - 2011

Undergraduate, Dokuz Eylul University, Fen Fakültesi, Matematik Bölümü, Turkey 2005 - 2009

## **Foreign Languages**

English, B2 Upper Intermediate

## **Dissertations**

Doctorate, Hydrodynamic interaction of waves with cylinders, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Matematik (Dr), 2017

Postgraduate, NUMERICAL SOLUTION TO THE MODEL OF PRIMARY INFECTION BY HIV, Dokuz Eylul University, Fen Bilimleri Enstitüsü, 2011

## **Research Areas**

Mathematics, Differential Equations, Fourier Analysis, Potential Theory, Approximations and Expansions, Natural Sciences

## **Academic Titles / Tasks**

Research Assistant PhD, Dokuz Eylul University, Fen Fakültesi, Matematik Bölümü, 2012 - Continues

Research Assistant, Izmir Institute Of Technology, Faculty Of Science, Department Of Mathematics, 2010 - 2012

## **Courses**

Mathematics I, Undergraduate, 2021 - 2022

Mathematics II, Undergraduate, 2019 - 2020

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

- I. **Linear wave interaction by multiple vertical cylinders of non-circular smooth cross-section: An iterative-asymptotic approach**  
DİŞİBÜYÜK N. B., Yilmaz O.  
Ocean Engineering, vol.305, 2024 (SCI-Expanded)
- II. **An Iterative Method for Interaction of Hydro-Elastic Waves with Several Vertical Cylinders of Circular Cross-Sections**  
DİŞİBÜYÜK N. B., Yilmaz O., Korobkin A., Khabakhpasheva T.  
JOURNAL OF MARINE SCIENCE AND ENGINEERING, vol.10, no.6, pp.1-15, 2022 (SCI-Expanded)
- III. **Diffraction of flexural-gravity waves by a vertical cylinder of non-circular cross section**  
Disibuyuk N. B., Korobkin A. A., Yilmaz O.  
APPLIED OCEAN RESEARCH, vol.101, 2020 (SCI-Expanded)
- IV. **Linear Wave Interaction with a Vertical Cylinder of Arbitrary Cross Section: An Asymptotic Approach**  
DİŞİBÜYÜK N. B., Korobkin A. A., Yilmaz O.  
JOURNAL OF WATERWAY PORT COASTAL AND OCEAN ENGINEERING, vol.143, no.5, 2017 (SCI-Expanded)

### Books & Book Chapters

- I. **An Asymptotic Method for the Diffraction of Hydro-elastic Waves by Nearly Circular Cylinders**  
DİŞİBÜYÜK N. B., YILMAZ O., Korobkin A., Shishmarev K., Khabakhpasheva T.  
in: Proceedings of the 9th International Conference on HYDROELASTICITY IN MARINE TECHNOLOGY, Dessi Daniel, Iafrati Alessandro, Editor, Institute of Marine Engineering CNR-INM, National Research Council of Italy, Roma, pp.187-196, 2022
- II. **Hydroelastic Waves Propagating in Ice Channel with a Variable Thickness of Ice**  
Shishmarev K., Zavyalova K., DİŞİBÜYÜK N. B., Khabakhpasheva T., Korobkin A.  
in: Proceedings of the 9th International Conference on HYDROELASTICITY IN MARINE TECHNOLOGY, Dessi Daniele, Iafrati Alessandro, Editor, Institute of Marine Engineering CNR-INM, National Research Council of Italy, Roma, pp.217-226, 2022

### Refereed Congress / Symposium Publications in Proceedings

- I. **Relationships between identities for quantum Bernstein bases and formulas for hypergeometric series**  
Zürnacı Yetiş F., Dışibüyük N. B.  
35. Ulusal matematik sempozyumu, Edirne, Turkey, 4 - 08 September 2023, pp.64
- II. **Diffraction of hydro-elastic waves by vertical cylinders**  
DİŞİBÜYÜK N. B., Yilmaz O., Korobkin A., Shishmarev K., Khabakhpasheva T.  
Mathematics of sea ice in the twenty-first century, Cambridge, England, 19 - 30 September 2022, pp.1
- III. **An Asymptotic Method for the Diffraction of Hydro-Elastic Waves by Nearly Circular Cylinders**  
DİŞİBÜYÜK N. B., Yilmaz O., Korobkin A., Shishmarev K., Khabahpasheva T.  
9th International Conference on Hydroelasticity in Marine Technology, Rome, Italy, 10 - 13 July 2022, pp.21
- IV. **Hydro-elastic wave loads on multiple vertical cylinders**  
DİŞİBÜYÜK N. B., Yilmaz O., Korobkin A.

International Workshop on the Mathematics of Sea Ice and Ice Sheets, Toowoomba, Australia, 10 - 12 November 2021, pp.1

V. **Interaction of Hydro-Elastic Waves with an Array of Non-Circular Vertical Cylinders**

DİŞİBÜYÜK N. B., YILMAZ O., Korobkin A.

VII ALL - RUSSIAN CONFERENCE WITH FOREIGN PARTICIPANTS "Free Boundary Problems: Theory, Experiment And Applications", Krasnojarsk, Russia, 01 July 2020

VI. **Diffraction of flexural-gravity waves from a vertical cylinder of non-circular cross section**

DİŞİBÜYÜK N. B., Korobkin A., YILMAZ O.

Days on Diffraction 2019, St. Petersburg, Russia, 3 - 07 June 2019

VII. **Dikey silindirlerin su dalgaları ile etkileşimi problemine asimtotik bir yaklaşım**

DİŞİBÜYÜK N. B., Korobkin A., YILMAZ O.

31. Ulusal Matematik Sempozyumu, Erzincan, Turkey, 12 - 15 September 2018

VIII. **Water Wave Interaction with Several Non-circular Vertical Cylinders**

DİŞİBÜYÜK N. B., Korobkin A., YILMAZ O.

32th International Workshop on Water Waves and Floating Bodies, Dalian, China, 23 - 26 April 2017, pp.57-60

IX. **Wave forces on a vertical cylinder with non circular cross section**

Dişibüyük N. B., Korobkin A. A.

The 30th International Workshop on Water Waves and Floating Bodies, Bristol, England, 12 - 15 April 2015, pp.53-56

## Supported Projects

Dişibüyük N. B., Yılmaz O., Korobkin A., Khabakpasheva T., Shishmarev K., Evgenii B., Tokareva M., Anton S., Papin A., Zavyalova K., TÜBİTAK International Bilateral Joint Cooperation Program Project, Deniz Buzu İçindeki Mühendislik Yapıları Üzerindeki Yükler, 2020 - 2022

## Scientific Refereeing

SHIPS AND OFFSHORE STRUCTURES, Journal Indexed in SCI-E, January 2023

OCEAN ENGINEERING, Journal Indexed in SCI-E, November 2022

OCEAN ENGINEERING, Journal Indexed in SCI-E, February 2021

## Metrics

Publication: 17

Citation (WoS): 18

Citation (Scopus): 16

H-Index (WoS): 2

H-Index (Scopus): 2

## Scholarships

2219-Doktora sonrası araştırma bursu, TUBITAK, 2019 - 2019

2211-Yurt İçi Doktora Burs Programı, TUBITAK, 2011 - 2017

2214A-Yurt Dışı doktora sırası araştırma bursu, TUBITAK, 2016 - 2016

Doktora sırası yurt dışı araştırma bursu, YOK, 2014 - 2015

2210-Yurt İçi Yüksek Lisans Bursu, TUBITAK, 2010 - 2011