

İsmail Güzel

Research and Teaching Assistant. **Istanbul Technical University**

Istanbul Technical University, Faculty of Science and Letters, Mathematics Engineering Department. Maslak, TR-34469

https://web.itu.edu.tr/iguzel/

ismailgzel@gmail.com

Social Network



Linkedin Profile Link



Github Project Page Link

Languages

Turkish (native) English



Computer Skills -

Computation

Julia, C, R, Python, Matlab

CAS

Mathematica, SageMath, Maple

Miscellaneous

Linux(Bash scripting), Office programs, LaTeX

Certificates

Certificate of Brain Training Certificate of Chess Games

Education

Ph.D. in Mathematics Engineering 2017 – ongoing Istanbul Technical University

Thesis on Topological Data Analysis and Machine Learning Algorithms

Advisor: Prof. Dr. Atabey Kaygun

M.Sc. in Mathematics (with thesis) 2010 – 2014 Dokuz Eylül University

GPA: 3.88/4.00

Thesis on highest eigenvalues of Regular Sturm-Liouville Problems

Advisor: Prof. Dr. Şennur Somali

2015 - 2016 Dokuz Eylül University B.Sc (Major) in Mathematics

GPA: 3.81/4.00

Graduated as Valedictorian

2014 - 2015**Pedagogical Formation in Mathematics** Dokuz Eylül University

2012 - 2015 **B.Sc (Minor) in Statistics** Dokuz Eylül University

GPA: 3.29/4.00

2012 - 2013**Exchange Program in Denmark** Aarhus University

GPA: 3.66/4.00

Project: The solving equations via Eigenvalues and Eigenvectors

Advisor: Anders Nedergaard Jensen

Publications and Scientific Activities

2020 **Hierarchical Clustering and Zeroth Persistent Homology**

arXiv

Güzel, İ., Kaygun, A.

Operator splitting methods for computation of eigenvalues of 2019

regular Sturm-Liouville problems

Surveys in Mathematics and its Applications

Güzel, İ., Adıyaman, M., Somali, S.

2016 **Computing Eigenvalues of Regular Sturm-Liouville Problems**

The 3rd Workshop of Association for Turkish Women in Maths

BAYSEM

May, 27-29 Izmir, TURKEY S. Somalı and İ. Güzel

Working Experience

2018 – ongoing Research and Teaching Assistant Istanbul Technical University

2015 - 2018 **Mathematics Teacher**

Scholarships

2017 -ongoing The Scientific and Technological Research Council of Turkey,

Grant 2211-A

2014 - 2016 Republic of Turkey, State Scholarship(for masters education)

2011 – 2014 Zorlu Foundation Fellowship

Projects

The Scientific Research Projects ITU (about PhD Thesis)
The Scientific and Technological Research Council of Turkey, 2020 - ongoing

2021 - ongoing

Grant 2214

Honors-Awards

Graduate ranking first in Science Faculty

Certificate of high honor by Science Faculty Dean 2011 - 2014