Şeyma Karadereli

Department of Mathematics, Boğaziçi University
34342, Bebek, Istanbul, Turkey
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RESEARCH INTEREST

Questions about geometric topology. Mainly, 3 and 4-dimensional manifolds, contact structures, plane curve singularities.

EDUCATION

Ph.D. in Mathematics — 2020–Present
Boğaziçi University, Advisor: Ferit Öztürk

M.S. in Mathematics — 2017–2020
Boğaziçi University, Advisor: Ferit Öztürk
Master Thesis: *Algebraic Overtwisted Contact Structures on 3-Sphere*

B.S. in Mathematics — 2012–2017
Boğaziçi University

POSITIONS

Teaching Assistant — 2020 – Present
Boğaziçi University

Visiting PhD Student — February 2023 – June 2023
Erwin Schrödinger International Institute for Mathematics and Physics (ESI)

Teaching Assistant — 2019 – 2020
Özyeğin University

PUBLICATIONS AND PREPRINTS

1. Real Algebraic Overtwisted Contact Structures on 3-Spheres (arXiv), with F. Öztürk

AWARDS AND GRANTS

Junior Research Fellowship — February 2023 – June 2023
Erwin Schrödinger International Institute for Mathematics and Physics (ESI)

National Scholarship Program for PhD Students — 2020–2024
TUBITAK (Turkish NFS) , Partial Support

National Scholarship Program for MSc Students — 2017–2019
TUBITAK

Undergraduate Scholarship Program — 2015–2017
TUBITAK

Undergraduate Scholarship Program — 2012–2015

Government of Turkey

TEACHING

Teaching Assistant at Boğaziçi University
T.A. coordinator, conducting problem sessions, office hours and exam gradings for the courses: Math 101-102 (Calculus I-II), Math 105 (Calculus for Social Sciences), Math 111 (Introduction to Mathematical Structures), Math 162 (Discrete Maths), Math 201 (Matrix Theory), Math 231 (Advanced Calculus), Math 471 (Topology)

Teaching Assistant at Özyeğin University
Office hours and exam gradings for the courses: Calculus for Engineering Students, Calculus for Social Sciences, Discrete Maths.

RESEARCH ACTIVITIES

Winter School in Low Dimensional Topology and Singularity Theory
Erdös Center, Budapest, Hungary — January, 2022

Frontiers in Geometry and Topology Summer School/Conference
ICTP, Trieste, Italy — August, 2022

Geometry-Topology Student Workshop on Khovanov Homology
GGTI, Muğla, Turkey — May, 2022

Braids in Low-Dimensional Topology
ICERM, Virtual Attendee — April, 2022

Tech Topology Summer School
Gatech, Virtual Conference — July, 2021

Mini School on Singularities of Surfaces
Galatasaray University, Istanbul, Turkey — November, 2019

Bosphorus Real Geometry Conference
IMBM, Istanbul, Turkey — October, 2019

26th Gökova Geometry-Topology Conference
Muğla, Turkey — June, 2019

Contact Topology Workshop
Hacettepe University, Ankara, Turkey — March, 2019

Topology and Geometry in Low Degrees, Workshop
IMBM, Istanbul, Turkey — December, 2018

25th Gökova Geometry-Topology Conference
Muğla, Turkey — June, 2018

REFERENCES

Prof. Ferit Öztürk,
Boğaziçi University
ferit.ozturk@boun.edu.tr

Assoc. Prof. Çağrı Karakurt,
Boğaziçi University
cagri.karakurt@boun.edu.tr

LIST OF PUBLICATIONS

1. Real Algebraic Overtwisted Contact Structures on 3-Spheres (arXiv, preprint), with F. Öztürk