

Şeyma Karadereli

Department of Mathematics, Boğaziçi University
34342, Bebek, Istanbul, Turkey
seyma.karadereli@boun.edu.tr

RESEARCH INTEREST

Questions about geometric topology. Mainly, 3 and 4-dimensional manifolds, contact manifolds, Milnor open book decompositions, plane curve and normal surface 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 (with F. Öztürk), *Algebraic & Geometric Topology*, 25 (2025) 1377-1409.

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 105-106 (Calculus for Social Sciences), Math 131-132 (Calculus of Single Variable/Several Variable), Math 111 (Introduction to Mathematical Structures), Math 162 (Discrete Maths), Math 201 (Matrix Theory), Math 221 (Linear Algebra), Math 231 (Advanced Calculus), Math 325 (Matrix Groups), 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

31th Gökova Geometry-Topology Conference

Muğla, Türkiye — May, 2026

IMBM Istanbul Topology Days

Boğaziçi University, Istanbul, Türkiye — May, 2026

Local Organizer, Lightning talk.

Mapping Class Groups and Beyond

Middle East Technical University, Ankara, Türkiye — May, 2025

The Low Dimensional Workshop

Erdős Center, Budapest, Hungary — March, 2022

The Singular Workshop

Erdős Center, Budapest, Hungary — March, 2023

Winter School in Low Dimensional Topology and Singularity Theory

Erdős Center, Budapest, Hungary — January, 2023

Lightning Talk.

Frontiers in Geometry and Topology Summer School/Conference

ICTP, Trieste, Italy — August, 2022

Geometry-Topology Student Workshop on Khovanov Homology

GGTI, Muğla, Türkiye — May, 2022

Lightning Talk.

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, Turkiye — November, 2019

Bosphorus Real Geometry Conference

IMBM, Istanbul, Turkiye — October, 2019

26th Gökova Geometry-Topology Conference

Muğla, Turkiye — June, 2019

Contact Topology Workshop

Hacettepe University, Ankara, Turkiye — March, 2019

Topology and Geometry in Low Degrees, Workshop

IMBM, Istanbul, Turkiye — December, 2018

25th Gökova Geometry-Topology Conference

Muğla, Turkiye — June, 2018

REFERENCES

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

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