Curriculum Vitae

Michigan State University Department of Mathematics temiztol@msu.edu tolgatemiz16@gmail.com

Education

Ph.D. - Michigan State University

- August 2023 -
- Ph.D. in Mathematics

Master of Science - Koc University & Boğaziçi University*

Koc University

- January 2020 May 2022
- M.S. in Mathematics
- Advisor: Burak Özbağcı
- GPA: 4.0/4.0
- Thesis Area: Low-Dimensional Topology (various problems for 4-manifolds with boundary (such as exotica) via tools from knot theory)

*Boğaziçi University

• I attended Boğaziçi University during my M.S. at Koc University for two terms. (SPA: 4.0/4.0)

Undergraduate - Koc University & University of British Columbia*

Koc University

- September 2016 May 2020
- Bachelor of Science degree in Mathematics
- GPA: 3.97/4.0 (Summa Cum Laude)

*University of British Columbia:

- I was an exchange student at UBC for one term (Winter 2018).
- SPA: 3.9/4.0.

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Awards and Honors

- Graduation: 2nd Place in the Department of Mathematics & 3rd Place in the Faculty of Science
- Vehbi Koç Scholar (2016-2019)
- TUBITAK 2205 Undergradaute Scholarship Program (2016-2020)
- TUBITAK-2210/A National M.Sc Scholarship Program (2020-2022)

Invited Talks

•	Exotic 4-Manifolds via Knot Traces (Koc University - Graduate Student Seminars)	2022
•	Morse Homology (Galatasaray University)	2022
•	Exotic Knot Traces (Low Dimensional Top. Winter School - Alfréd Rényi Institute of Mathematics)	2023

Research Interests

- Low-Dimensional Topology
- Knot Theory & Its Applications to low-dimensional topology
- Floer Homologies

Attended Seminars/Workshops

Tech Topology Summer School	Summer 2021
Mirror symmetry for Looijenga interiors and beyond	Summer 2022
Koc University Student Seminars	Spring 2020-Present
Singularities and Low-Dimensional Topology (Winter school) (Budapest)	Fall 2022

Teaching Experience

Teaching Assistantship

MATH 101 - Finite Mathematics	Fall 2022
MATH 102 - Calculus for Social Sciences	Summer 2017
MATH 320 - Advanced Linear Algebra	Fall 2018 & Spring 2022 & Fall 2022
MATH 104 - Discrete Mathematics	Spring 2019
MATH 103 - Introduction to Abstract Mathematics	Fall 2019
MATH 208 - Advanced Calculus	Spring 2020
MATH 107 - Introduction to Linear Algebra	Fall 2021
MATH 405 - Differential Geometry	Spring 2022
MATH 401 - Complex Analysis	Spring 2023
MATH 203 - Multivariable Calculus	Spring 2023

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Tutoring

* The tutoring jobs listed below were completed at KOLT (Koc University Office of Learning and Teaching)

COMP 110 - Introduction to MATLAB MATH 107 - Introduction to Linear Algebra MATH 204 - Elementary Differential Equations Spring 2017 Fall 2017

Spring 2018

Work Experience

KOLT (Koc University Office of Learning and Teaching) (Fall 2017-Spring 2019): Work-study student, tutor.

• Unicourse (Summer 2021-Present): Head of the Mathematics Team & Mathematics instructor for service level mathematics courses:

Unicourse (a distance learning company) is a start-up founded by some dedicated people who would like to provide undergraduate students with course resources. I have recorded video lectures for many of the service-level mathematics courses (linear algebra, calculus 1-2-3, differential equations) and courses such as Discrete Mathematics offered at Unicourse so far.

Service - Mentoring

During my master's years

- Lead an elementary number theory reading group for a group of high school students.
- Lead a Euclidean geometry reading group for a group of high school students.
- Lead a Calculus reading group for a group of high school students.

Languages

Turkish, English