Aziz Burak Gülen

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Education

August 2018—Present	Ph.D., Mathematics The Ohio State University, Columbus, OH Advisor: Facundo Mémoli CGPA: 3.97/4.00
September 2013—June 2018	B.S., Mathematics Middle East Technical University, Ankara, Turkey CGPA: 3.88/4.00

Employment

August 2018—Present	Graduate Teaching Associate Department of Mathematics, The Ohio State University
February 2016—June 2017	Student Assistant Department of Mathematics, Middle East Technical University

Publications / Preprints

- A Generalization of the Persistent Laplacian to Simplicial Maps. With F. Mémoli, Z. Wan, and Y. Wang. In 39th International Symposium on Computational Geometry (SoCG) 2023
- Galois Connections in Persistence Homology. With A. McCleary, arXiv:2201.06650

Teaching Experience

THE OHIO STATE UNIVERSITY

TA Training Instructor	Summer 2023
Calculus III, MATH2153, TA for three sections	Autumn 2022
TA Training Instructor	Summer 2022
Calculus for Business, MATH1131, TA for two sections	Spring 2022
Engineering Mathematics B, MATH2173, TA for three sections	Autumn 2021
Combinatorics, MATH4575 & Linear Algebra, MATH2568, Grader	Spring 2021
Precalculus, MATH1150, TA for two sections	Autumn 2020
Engineering Mathematics A, MATH1172, TA for two sections	Spring 2020
Calculus II, MATH1152, TA for two sections	Autumn 2019
Calculus II, MATH1152, TA for two sections	Spring 2019
Calculus I, MATH1151, TA for two sections	Autumn 2018

Middle East Technical University

- Calculus for Mathematics Students II, MATH154, Grader   Spring 2017
- Calculus for Mathematics Students I, MATH153, Grader   Autumn 2016
- Basic Algebraic Structures, MATH116, TA   Spring 2016

Honors and Awards

- OSU Math. Department, Speacial Graduate Assignments (SGA)   Spring 2023
- OSU Graduate Associate Teaching Award (GATA)   March 2022
- OSU Student Research Assistantship   Summer 2019, Summer 2020

Talks

- A Generalization of the Persistent Laplacian to Simplicial Map   June 2023
  SoCG 2023
- Using Galois Connections to Prove Bottleneck Stability   June 2023
  Workshop on Möbius Inversions and Reeb Spaces
- A Tutorial on Spectral Clustering   April 2023
  OSU (Topology Geometry and Applications - Graduate Student Seminar)
- Computing Topological Persistence for Simnplicial Maps   February 2023
  OSU NDA Group meeting
- Persistence Laplacian   July 2022
  OSU NDA Group meeting
- Saecular Persistence   March 2022
  OSU NDA Group meeting
- Diagrams of Persistence Modules Over Finite Posets   February 2022
  OSU TGDA Seminar
- Diagrams of Persistence Modules Over Finite Posets   February 2022
  OSU Topology, Geometry, and Applications - Graduate Student Seminar group
- Bottleneck Stability for Generalized Persistence Diagrams   November 2021
  OSU NDA Group meeting
- Generalized Persistence Diagrams   October 2021
  OSU NDA Group meeting
- Linear Systems on Metric Graphs   October 2020
  OSU Student Algebraic Geometry Seminar

Attended Conferences & Seminars & Summer Schools

- The 39th International Symposium on Computational Geometry   Summer 2023
- Geometry and Topology meet Data Analysis and   Summer 2023
  Machine Learning
- Workshop on Algebraic Combinatorics and Category   Spring 2022 (Online)
  Theory in Topological Data Analysis

- Twelve Lectures on Tropical Geometry, Max-Planck-Institut für Mathematik (Online) — Summer 2020
- Algebraic and Tropical Meetings (ATOM) (Online) — Summer 2020
- Facets of Algebraic Geometry, Michigan — October 2019
- GSTGC, Illinois — March 2019