

Irem Altiner

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Education

Temple University

Ph.D. in Mathematics

Thesis on *Metalenses and Optimal Transport*

GPA 3.75/4.0

August 2019 - May 2024 (*Expected*)

Bogazici University

Bachelor of Science in Mathematics

GPA 3.31/4.0

September 2014 - May 2019

Michigan State University

Exchange Student in Mathematics

GPA 4.0/4.0

August 2018 - December 2018

Professional Activities & Talks

MSRI (Mathematical Sciences Research Institute) Summer School for Graduate Students

Summer School in Mathematics of Machine Learning

- Studied various Machine Learning techniques such as Deep Learning, Reinforcement Learning and Statistical Learning

July - August 2022

AWM Research Symposium, Women in Analysis Research Network Special Session

Talk title: Metalenses and Phase Discontinuity Functions

- Gained experience and confidence in giving a talk to mathematicians in higher levels of academia and industry

June 2022

Graduate Seminar Talks

Talk titles: Existence of Tangential Phase Discontinuity Functions (Spring 2022), Transshipment Problem, Its Conversion into a Transportation Problem and Its Applications (Spring 2021)

Spring 2021 - 2022

Work Experience

Temple University

- Taught complex ideas to students of varying ability
- Developed public speaking skills and learned working effectively with people at all levels

Teaching Assistant

August 2019 - Present

Oak Ridge National Laboratory

- Project: Reinforcement Learning in Optimizing the Electric Vehicle Battery System Coupling with Driving Behaviors

Summer Intern

June - August 2023

Philadelphia High School for Girls

- Worked with young students in Mathematics Bootcamp
- Taught elementary level mathematics complementary to high school syllabus

Tutor

September 2021

Leadership Activities

Temple University Graduate Seminar

- Planned and created weekly research talks for graduate students in Temple University

Co-organizer

August 2022 - May 2023

Research Project with Philadelphia High School for Girls

- Created and implemented a work plan for 6-week long research project on Graph Theory to promote mathematics to young girls in high school
- Led a small group of four young students to work collaboratively and to apply mathematics to real world

Leader

July 2020

Bogazici University Underwater Sports Club

CMAS 3* Scuba Diver

- Worked with other board members to organize (transportation, accommodation, diving) 50+ people diving trips in Turkey
- Managed communications and paperwork between the university, Turkish Underwater Sports Federation and the municipalities
- Provided theoretical and in-water diving training across various certificate levels in CMAS

Board Member

2017 - 2019

Skills & Certifications

Technical Skills Python, NumPy, Pandas, Matplotlib, Seaborn, Scikit-Learn, TensorFlow, Excel, \LaTeX , Beamer

Certifications Udemy - Practical AI with Python and Reinforcement Learning (Certificate)