

EDUCATION	<b>University of California, San Diego</b> PhD in Mathematics (Expected Starting: Sep 2025)  <b>University of Waterloo</b> MMath in Statistics (Sep 2023 - Apr 2025) <ul style="list-style-type: none"><li>• Advisor: Prof. Aukosh Jagannath</li><li>• Thesis: <i>High-Dimensional Scaling Limits of SGD in Single-Index Models</i></li></ul> <b>Sharif University of Technology</b> BSc in Physics (Sep 2018 - Feb 2023) <ul style="list-style-type: none"><li>• Minor in Mathematics</li></ul>
INTERESTS	<ul style="list-style-type: none"><li>• Probability Theory</li><li>• High-Dimensional Statistics</li><li>• Stochastic Analysis</li><li>• Random Matrix Theory</li><li>• Mathematical Physics</li><li>• Statistical Physics</li></ul>
RESEARCH EXPERIENCES	<b>Graduate Research Student</b> University of Waterloo (Sep 2023 - Apr 2025) <ul style="list-style-type: none"><li>• Supervisor: Prof. Aukosh Jagannath</li><li>• Project: <i>High-Dimensional Scaling Limits of SGD in Single-Index Models</i></li></ul> <b>Summer Research Intern</b> EPFL (July 2022 - Sep 2022) <ul style="list-style-type: none"><li>• Supervisor: Prof. Lenka Zdeborova</li><li>• Project: <i>Assortative Partitions on Dense Random Graphs</i></li></ul>
HONORS AND AWARDS	University of Waterloo Graduate Scholarship, 2025 Graduate Research Studentship, University of Waterloo, 2023-2025 International Master's Award of Excellence, University of Waterloo, 2023 MMath Entrance Scholarship, University of Waterloo, 2023 Summer@EPFL Fellowship, EPFL, 2022 Ranked 5th the 26th Iran University Physics Olympiad, Sanjesh Org., 2021 Silver Medal in the 30th Iran National Physics Olympiad, Sampad Org., 2017
SUMMER SCHOOLS	CRM-PIMS Summer School in Probability, University of Montreal, Canada, 2024 Quantum Thermodynamics Summer School, ETH Zurich, Switzerland, 2021
TEACHING EXPERIENCES	<b>Teaching Assistant</b> , University of Waterloo (2023-2025) <ul style="list-style-type: none"><li>• STAT 333: Stochastic Processes 1 (Winter 2025, Winter 2024)</li><li>• STAT 833: Stochastic Processes 2 (Fall 2024)</li><li>• STAT 330: Mathematical Statistics (Spring 2024, Fall 2023)</li><li>• STAT 231: Probability (Spring 2024)</li><li>• STAT 230: Statistics (Spring 2024)</li><li>• STAT 202: Introductory Statistics for Scientists (Fall 2023)</li></ul>

**Teaching Assistant**, Sharif University of Technology (2019-2022)

- Thermodynamics and Statistical Mechanics 3 (Fall 2022, Fall 2021, Spring 2021)
- Thermodynamics and Statistical Mechanics 2 (Spring 2021)
- Thermodynamics and Statistical Mechanics 1 (Fall 2020)
- General Physics 3 (Fall 2019)
- Fundamentals of C Programming (Fall 2019)

## SKILLS

**Programming:** Experienced in C and Python

**Libraries:** Familiar with Scikit-Learn, Keras, and TensorFlow

**Tools:** Experienced in Wolfram Mathematica and L<sup>A</sup>T<sub>E</sub>X

**Languages:** English (C1), Turkish (Fluent), Azerbaijani and Persian (Native)