

EDUCATION	<p><b>University of California, San Diego</b> PhD in Mathematics (Expected: Sep 2025)</p> <p><b>University of Waterloo</b> MMath in Statistics (Sep 2023 - Apr 2025)</p> <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> <p><b>Sharif University of Technology</b> BSc in Physics (Sep 2018 - Feb 2023)</p> <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	<p><b>Graduate Research Student</b> University of Waterloo (Sep 2023 - Apr 2025)</p> <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> <p><b>Summer Research Intern</b> EPFL (July 2022 - Sep 2022)</p> <ul style="list-style-type: none"><li>• Supervisor: Prof. Lenka Zdeborova</li><li>• Project: <i>Assortative Partitions on Dense Random Graphs.</i></li></ul> <p><b>Undergraduate Research Student</b> Sharif University of Technology (June 2021 - Sep 2021)</p> <ul style="list-style-type: none"><li>• Supervisor: Prof. Amir Daneshgar</li><li>• Project: <i>Belief Propagation for Graph Bi-Partitioning.</i></li></ul> <p><b>Remote Research Intern</b> University of Manchester (Feb 2021 - Jun 2021)</p> <ul style="list-style-type: none"><li>• Supervisor: Dr. Ahsan Nazir and Dr. Adam Stokes</li><li>• Project: <i>Thermodynamics of Non-Conjugate Quantum Subsystems.</i></li></ul>
HONORS AND AWARDS	<p>University of Waterloo Graduate Scholarship, 2025</p> <p>Graduate Research Studentship, University of Waterloo, 2023-2025</p> <p>International Master's Award of Excellence, University of Waterloo, 2023</p> <p>MMath Entrance Scholarship, University of Waterloo, 2023</p> <p>Summer@EPFL Fellowship, EPFL, 2022</p> <p>Ranked 5th the 26th Iran University Physics Olympiad, Sanjesh Org., 2021</p> <p>Silver Medal in the 30th Iran National Physics Olympiad, Sampad Org., 2017</p>
SUMMER SCHOOLS	<p>CRM-PIMS Summer School in Probability, University of Montreal, Canada, 2024</p> <p>Summer@EPFL: Summer Research Internship, EPFL, Switzerland, 2022</p> <p>Quantum Thermodynamics Summer School, ETH Zurich, Switzerland, 2021</p>

TEACHING  
EXPERIENCES

**Teaching Assistant**, University of Waterloo (2023-2025)

- STAT 333: Stochastic Processes 1 (Winter 2025, Winter 2024)
- STAT 833: Stochastic Processes 2 (Fall 2024)
- STAT 330: Mathematical Statistics (Spring 2024, Fall 2023)
- STAT 231: Probability (Spring 2024)
- STAT 230: Statistics (Spring 2024)
- STAT 202: Introductory Statistics for Scientists (Fall 2023)

**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  $\text{\LaTeX}$

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