

EDUCATION	<b>École Polytechnique, Institut Polytechnique de Paris</b> <i>M.Sc. in Computer Science (PhD-track Program)</i> <ul style="list-style-type: none"> <li>• Master Parisien de Recherche en Informatique (MPRI)</li> <li>• M1 Internship Title: <i>Quantum Guessing Games</i></li> </ul>	Paris, France 2023 - 2025 ( <i>expected</i> )
	<b>Sharif University of Technology</b> <i>B.Sc. in Pure Mathematics, Minor in Computer Science</i> <ul style="list-style-type: none"> <li>• Bachelor's Thesis Title: <i>Quantum Proofs</i></li> </ul>	Tehran, Iran 2018 - 2023
RESEARCH PROJECTS	<b>Quantum Guessing Games (M1 Internship)   Télécom Paris</b> <ul style="list-style-type: none"> <li>• <i>Supervised by Peter Brown and Cambyse Rouzé</i></li> <li>• An investigation of quantum guessing games, a generalization of quantum state discrimination and antidiscrimination, in which we found closed-form solutions for specific games, defined and analyzed the pretty good measurement for this generalization, and studied the convergence behaviour of an iterative algorithm for determining the optimal strategy.</li> </ul>	2024.04 - 2024.08
	<b>Positive but not Completely Positive Maps   Télécom Paris</b> <ul style="list-style-type: none"> <li>• <i>Supervised by Peter Brown</i></li> <li>• A numerical and analytical study of the properties of positive but not completely positive (PnCP) maps, focusing on their applications in entanglement detection and relaxing certain optimization problems over the set of separable quantum states. Using semidefinite programming, we explored the relationship between two fundamental entanglement criteria: positivity under partial application of a PnCP map and entanglement witnesses.</li> </ul>	2023.09 - 2024.03
	<b>Quantum Proofs (Bachelor's Thesis)   Sharif University</b> <ul style="list-style-type: none"> <li>• <i>Supervised by Shahram Khazaei</i></li> <li>• A pedagogical survey (in Persian) intended to be an introduction to quantum complexity theory, focusing on QMA, a quantum analogue of NP.</li> </ul>	2023.01 - 2023.04
TALKS AND PRESENTATIONS	<b>Convergence Analysis of Iterative Methods for Quantum State Discrimination</b> <i>Poster Presentation at YQIS24</i>	2024.11
	<b>Iterative Algorithms for Quantum State Discrimination</b> <i>Invited Talk at Télécom Paris, Quriosity</i>	2024.07
	<b>Positive Maps and their Applications in the Study of Entanglement</b> <i>Invited Talk in Hamband Scientific Association</i>	2023.10
TEACHING EXPERIENCES	<b>Teaching Assistant (at Sharif University of Technology)</b> <i>Automata Theory, Theory of Computer Science, Linear Algebra, Probability, Logic, Topology, Complex Analysis</i>	2020 - 2023
	<b>Part-time Mathematics Teacher</b> <i>Allameh Helli Middle School and High School</i>	2019 - 2023
AWARDS	<b>Recipient of the Full-package PhD-track Scholarship</b> <i>Institut Polytechnique de Paris</i>	2023

SKILLS	<b>Programming:</b> Python, C, Java, Agda, $\text{\LaTeX}$	
OTHER ACTIVITIES	<b>Head Organizer and Mentor</b>	
	<i>Sharif Mathematics Summer School (for high school students)</i>	2019.07
	<b>Member of Hamband Scientific Association</b>	
	<i>Sharif University of Technology, Department of Mathematics</i>	2019.06 - 2020.08
	<b>Editorial Board of Sharif Students Mathematics Journal</b>	
	<i>A student journal conducted by current and former students of the mathematics department at Sharif University of Technology</i>	2023.04 - 2023.08