Mahya Jamshidian

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EDUCATION	**University of Alberta**, Canada, Alberta, Edmonton *Doctor of Philosophy*, Theoretical Computer Science September 2022 - Present

University of Alberta, Canada, Alberta, Edmonton
Master of Science, Theoretical Computer Science
September 2020 - August 2022
Thesis: Approximation Algorithms for Clustering with Minimum Sum of Radii, Diameters, and Squared Radii , *Under the supervision of Dr. Zachary Friggstad*

Isfahan University of Technology, Isfahan
Bachelor of Engineering, Computer Engineering(CSE)
September 2016 - August 2020
Thesis: Open problems in Quantum Communication Complexity, *Under the supervision of Dr. Ramin Javadi*

PUBLICATIONS
- **Improved Polynomial-Time Approximations for Clustering with Minimum Sum of Radii or Diameters** *Zachary Friggstad, Mahya Jamshidian* ESA 2022

- **BoxOff is NP-Complete** *Ryan Hayward, Robert Hearn, Mahya Jamshidian,* ACG 2021

- **The Neglected Bi-Threshold Aspect of Human Decision-Making: Equilibrium Analysis** *Mahya Jamshidian, Zeinab Maleki, Pouria Ramazi,* 2021 60th IEEE Conference on Decision and Control (CDC)

NOTABLE PROJECTS AND PRESENTATIONS
- **Quantum Optimizer for Weighted Max-Cut problem**
- **Quantum Simulator for basic operations and gates**
- **Quantum Error Correction**
for Quantum Computing course
- **Developed Classic and Modern game** *For the purpose of teaching young adults to programming in C#.*

TECHNICAL SKILLS
Languages: Python, C++, C, C#, Java, MATLAB, R, Qiskit, QuTiP
Database: MySQL, PostgreSQL, GraphQL, ElasticSearch, Neo4j
Tools: Unity3D, Unreal, Javascript, Verilog, OpenMP

TEACHING EXPERIENCE
- **Theory of Computation Teaching Assistant**
Lecturer Dr. Hossein Falsafain
Winter 2019 and Winter 2020

- **Design and Analysis of Algorithms Teaching Assistant**
Lecturer Dr. Zeinab Maleki
Winter 2020

- **Discrete Mathematics - CMPUT 272**
University of Alberta
Winter 2021

- **Algorithms II - CMPUT 304**

University of Alberta
Fall 2021, Fall 2022, and Fall 2023

• Combinatorial Game Theory - CMPUT 497/670
University of Alberta
Winter 2022

• Theory of Computation - CMPUT 474
University of Alberta
Winter 2023

EXTRA-CURRICULAR ACTIVITIES	• Vice Chair in Computer Engineering Scientific and Student Association (CESSA) 2017-2019 • Editor-in-Chief for Hypertext exclusive magazine issue no. 10 2018 • Recipient of academically elite-cultural activist student of the year award at IUT 2019
LANGUAGE	• **Persian:** Native • **English:** Fluent • **French:** Intermediate