CONTACT INFORMATION

Al Institute for Advances in Optimization Georgia Institute of Technology 756 W Peachtree St NW, Atlanta, GA 30308 Email: ahijazi6@gatech.edu Website: amhijazi.com

RESEARCH AREAS

Methods: Stochastic Optimization, Discrete Optimization, Deep Learning, Machine Learning **Applications:** Healthcare Systems, Production Systems, Supply Chain

PROFESSIONAL EXPERIENCE

Al Institute for Advances in Optimization, Atlanta, Georgia Postdoctoral Fellow	Jul 2023 - Present
 North Carolina State University, Raleigh, North Carolina Research Assistant, ISE Department Projects: Neural Networks and Column Generation for Parallel Mac Iterative Combinatorial Auctions Guided by Data Science 	Aug 2020 - Jun 2023 chine Scheduling
Teaching Assistant, ISE Department Course: Quality Design and Control, Undergraduate Level	Aug 2019 - May 2020
Research Assistant, ISE Department Project: Risk-Averse Vaccine Allocation Using Stochastic Program	Aug 2018 - Jun 2019 nming
Los Alamos National Laboratory, Los Alamos, New Mexico Graduate Research Assistant Intern, Theoretical Division Project: Correcting Misalignment in Drone-Mounted LiDAR Point	Jun 2020 - Sep 2020 Clouds
Freelancer.com Freelance Industrial Engineer Projects: Multiple projects for clients that involved Simulation, Op Data Analytics	May 2017 - May 2018 timization, and
 Islamic University of Gaza, Gaza, Palestine Teaching Assistant, Department of Industrial Engineering Courses: Operations Research, Operations Management, Statistica Materials Engineering, Systems Simulation, Engineering B 	5
European Gaza Hospital, Gaza, Palestine Data Analytics Intern Project: Analysis of overcrowding in outpatient clinics	Jun 2015 - Aug 2015

EDUCATION

North Carolina State University, Raleigh, NC USA

Ph.D. in Industrial and Systems Engineering (ISE)

- Thesis: Resource Allocation Using Mathematical Programming and Machine Learning

- Advisors: Osman Ozaltin, Reha Uzsoy

Islamic University of Gaza, Gaza, Palestine

B.S. in Industrial Engineering

- Final Project: Proposed Scheduling Models Based on Real Life Instances

WORKING PAPERS

[1] **Hijazi, A.,** Ozaltin, O., Jensen, M., Yarmand, H., Ivy, J. Risk-Averse Vaccine Allocation Using Stochastic Programming. (In Preparation)

[2] Gopinath, S., Hijazi, H., Lemons, J., Collins, A., Schultz-Fellenz, E., Bent, R., **Hijazi, A.**, Riemersma, G.(2022). Globally Optimal Boresight Alignment of UAV-LiDAR Systems. arxiv.org/pdf/2202.13501

[3] **Hijazi, A.,** Ozaltin, O., Uzsoy, R. Pointer-Transformer Based Column Generation for Parallel Machine Scheduling (In Preparation)

AWARDS & HONORS

College of Engineering Travel Award for INFORMS Annual Meeting (\$50	00)	Oct 2019
College of Engineering Travel Award to attend "Understanding Health B	ehavior	Jun 2019
using Smartphones and Wearables Bootcamp" in Saskatoon, Canada		
Recipient of University Graduate Fellowship (\$4000)		Aug 2018
College of Engineering Travel Award for INFORMS Annual Meeting (\$50	00)	Nov 2018
Hani Qaddumi B.S. Scholarship, Hani Qaddumi Foundation	Aug 2015 -	May 2016
Islamic University of Gaza Academic Excellence Scholarship	Aug 2012 -	May 2016

CONFERENCE PRESENTATIONS

Amira Hijazi, Osman Ozaltin, Reha Uzsoy. (2022). Neural Network and Column Generation for Parallel Machine Scheduling. INFORMS Annual Meeting.

Amira Hijazi, Osman Ozaltin, Maria Jensen, Hamed Yarmand, Julie Ivy. (2020). Risk-Averse Vaccine Allocation Using Stochastic Programming. INFORMS Annual Meeting.

Amira Hijazi, Osman Ozaltin, Maria Jensen, Hamed Yarmand, Julie Ivy. (2019). Mean-Risk Two-Stage Vaccine Allocation to Different Regions Under Uncertainty. INFORMS Annual Meeting.

SERVICE & LEADERSHIP

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2018 - 2023

2012 - 2016

Student Chapter Representative	
INFORMS Health Applications Society	Feb 2020 - Dec 2020
Student Liaison	
NC State University Pursuing Operational Excellence Task Force	Dec 2019 - Jul 2020
Student Representative	
Graduate Student Association	Sep 2019 - May 2021
Department of Industrial & Systems Engineering Representative	
Graduate Student Association	Sep 2019 - May 2020
Research Recognition Committee Member	
INFORMS Annual Meeting	Oct 2019
Daily E-news Student Writer	
INFORMS Annual Meeting	Nov 2018
Student Volunteer	
Islamic University of Gaza IISE Student Chapter	Aug 2013 - May 2015
Founder and President	
Arab Innovation Network	Jun 2013 - Jun 2015
Student Ambassador	