

# Amira Hijazi

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## CONTACT INFORMATION

Department of Industrial and Systems Engineering  
North Carolina State University  
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Raleigh, NC 27606 USA

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## EDUCATION

**North Carolina State University**, Raleigh, NC USA 2018 - 2023  
Ph.D. in Industrial and Systems Engineering (ISE)  
- Advisor: Osman Ozaltin, PhD

**Islamic University of Gaza**, Gaza, Palestine 2012 - 2016  
B.S. in Industrial Engineering  
- Final Project: Proposed Scheduling Models Based on Real Life Instances

## RESEARCH AREAS

**Methods:** Stochastic Optimization, Discrete Optimization, Machine Learning  
**Applications:** Healthcare Systems, Energy Systems, Production Systems, Mechanism Design

## PUBLICATIONS

- [1] Hassan Hijazi, **Amira Hijazi**, Julian Dann, Adam Collins, Russell Bent, Gert Riemersma.  
ARMO: Alignment and Registration via Mathematical Optimization. (Working Paper)
- [2] **Amira Hijazi**, Osman Ozaltin, Maria Jensen, Hamed Yarmand, Julie Ivy.  
Risk-Averse Vaccine Allocation Using Stochastic Programming. (Working Paper)

## PROFESSIONAL EXPERIENCE

**Los Alamos National Laboratory**, Los Alamos, New Mexico USA Jun 2020 - Sep 2020  
Graduate Research Assistant Intern, Theoretical Division  
**Project:** Correcting Misalignment in Drone-Mounted LiDAR Point Clouds

**North Carolina State University**, Raleigh, North Carolina USA Aug 2018 - May 2023  
Research Assistant, ISE Department Aug 2020 - May 2021  
**Project:** Iterative Combinatorial Auctions Guided by Data Science

Teaching Assistant, ISE Department Aug 2019 - May 2020  
**Course:** Quality Design and Control, Undergraduate Level

Research Assistant, ISE Department Aug 2018 - Jun 2019  
**Project:** Risk-Averse Vaccine Allocation Using Stochastic Programming

**Freelancer.com**

May 2017 - May 2018

Freelance Industrial Engineer

**Projects:** Multiple projects for clients that involved Simulation, Optimization, and Data Analytics**Islamic University of Gaza**, Gaza, Palestine

Aug 2016 - Oct 2016

Teaching Assistant, Department of Industrial Engineering

**Courses:** Operations Research, Operations Management, Statistical Quality Control, Materials Engineering, Systems Simulation, Engineering Economy**European Gaza Hospital**, Gaza, Palestine

Jun 2015 - Aug 2015

Data Analytics Intern

**Project:** Analysis of overcrowding in outpatient clinics

## AWARDS & HONORS

College of Engineering Travel Award for INFORMS Annual Meeting (\$500)	Oct 2019
College of Engineering Travel Award to attend "Understanding Health Behavior using Smartphones and Wearables Bootcamp" in Saskatoon, Canada	Jun 2019
Recipient of University Graduate Fellowship (\$4000)	Aug 2018
College of Engineering Travel Award for INFORMS Annual Meeting (\$500)	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, Maria Jensen, Hamed Yarmand, Julie Ivy. (2019). Mean-Risk Two-Stage Vaccine Allocation to Different Regions Under Uncertainty. INFORMS Annual Meeting, Seattle, WA USA

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

## SERVICE & LEADERSHIP

**INFORMS ORMS Tomorrow Student Magazine**

Apr 2020 - Apr 2022

Co-Lead Editor

**ISE Department, NC State University**

Oct 2020 - May 2023

Diversity, Equity and Inclusion Committee Graduate Students Rep

**EMPOWER Collaborative**

Aug 2020 - Oct 2020

Student Ambassador for Call for Code Spot Challenge

**INFORMS Chapters/Fora Committee**

Feb 2020 - Feb 2021

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