

NARGES MOHAMMADI

Imperial College Business School | n.mohammadi19@imperial.ac.uk | <https://narges9513.github.io/>

EDUCATION

Imperial College Business School

Sep. 2020 – Aug. 2025

Ph.D. Candidate in Analytics and Operations

Supervisor: Dr. Reza Skandari

Imperial College Business School

Sep. 2019- July 2020

Master in Research in Analytics and Operations

Supervisor: Dr. Reza Skandari

Thesis: "Optimal Hearing Loss Monitoring and Infection Treatment: The Case of Cystic Fibrosis Disease"

GPA: Distinction

Sharif University of Technology, Department of Industrial Engineering

Sep. 2017- July 2019

Master of Science in Industrial Engineering

Supervisor: Prof. Mohammad Modarres

Thesis: "Optimization of Health Care Systems Projects using Real Options and Queuing Theory; Case Study Approach"

GPA: 18.98/20, Ranked Second in Industrial Engineering Department

Sharif University of Technology, Department of Industrial Engineering

Sep. 2013- July 2017

Bachelor of Science in Industrial Engineering

Supervisor: Prof. Mohammad Modarres

Thesis: "Optimizing the Acceptance Rate of Hospital Emergency Department Using Data Analysis and Queuing Theory; Case Study Approach"

GPA: 18.31/20, Ranked First in Industrial Engineering Department

RESEARCH INTERETS

Topics: Health Operations Management and Analytics, Medical Decision Making, Decision Making under uncertainty

Methods: Dynamic Programming, Simulation, Data Analysis

PAPERS

"Efficient Discovery of Cost-effective Policies in Sequential, Medical Decision-Making Problems", Mohammadi N., Skandari MR., Shah A. Under review at Operations Research [\[Link\]](#)

Runner up Prize ICBS Operations & Analytics Best PhD Paper Award 2023

WORKING PAPERS

"Optimal post-treatment recurrence surveillance: the case of head and neck cancer", Mohammadi N., Zamani Foroushani N., Skandari MR, Pearson, A.

"Cost-Effective Surveillance Strategies for Early Detection of Cancer Recurrence: Optimal Integration of Imaging and ctDNA Testing", Mohammadi N., Skandari MR, Pearson A.

"Dynamic Vaccine Allocation Strategy: Integrating Population Behavior Dynamics for Optimal Governmental Decision-Making", Mohammadi N., Miraldi M., Haw D., Mun S., Anderreti B.

HONORS AND AWARDS

Runner up Prize for ICBS Operations & Analytics Best PhD Paper Award	June 2023
Received President's Ph.D. Scholarship from Imperial College London	October 2020 – April 2024
Received Scholarship from Iran National Elite Foundation	Fall 2016 – Spring 2019
Received Straight M.Sc. Admission Offer from Sharif University	September 2017
Received the award of "The Best Graduated Industrial Engineering Student" Sharif University	May 2018

TEACHING EXPERIENCE

Imperial College Business School

Teaching Assistant – "Decision Analytics" – Dr. Reza Skandari **Autumn 2020-Present**
Weekly practice sessions, grading assignments

Teaching Assistant – "Project Management" – Dr. Reza Skandari **Spring 2020-Summer 2023**
Microsoft Project workshop, grading quizzes and final projects

Teaching Assistant – "Operations Management for GMBA" – Prof. Kalyan Talluri **Spring 2021- Present**
Grading the assignments

London Business School

Teaching Assistant – "Data Mining" – Prof. Nicos Savva **Spring 2022**
Weekly practice sessions

Teaching Assistant – "Advanced Business Analytics" – Prof. Nicos Savva **Autumn 2022**
Weekly practice sessions

Sharif University of Technology

Teaching Assistant – "Operations Research" – Prof. Mohammad Modarres **Fall 2016- Spring2019**
Developing final projects, GAMS workshop session, grading projects

Teaching Assistant – "Engineering Statistics"- Prof. Hashem Mahlooji **Spring 2017- Spring 2019**
Weekly practice sessions, developed quiz questions, grading quizzes

Teaching Assistant – "Supply Chain Management"- Prof. Mohammad Akbarijokar **Spring 2019**
Grading quizzes, assignments and final project

Teaching Assistant – "Quality Control"- Dr. Majid Rafiee **Spring 2016- Fall 2016**
Weekly practice sessions, grading quizzes and assignments

Teaching Assistant – "Computer Information Systems"- Dr. Samira Sadeghi **Fall 2016- Spring 2017**
Weekly practice sessions, grading quizzes, assignments and final project

Teaching Assistant – "Project Control"- Dr. Narges Shirvani **Fall 2017**
Microsoft Project workshop, developing final project questions

VOLUNETARY EXPERIENCES

INFORMS Annual Meeting, Phoenix, Arizona **October 2023**

Session Chair for Session Titled "Medical Decision Making"
INFORMS Annual Meeting, Anaheim, California, online **October 2021**

Session Chair for Session Titled "Medical Decision Making"

Scientific Associations, Sharif University, Department of Industrial Engineering
Member of Head Council **June 2018 – July 2019**

Student Union, Sharif University, Department of Industrial Engineering

Secretary

Fall 2015- Spring 2017

Conference on Industrial Engineering, Sharif University of Technology

Secretary

Feb. 2018

RESEARCH GROUP EXPERIENCES

Vaccine Student Research Network Manager

September 2023-Present

Imperial College London

Member of Pandemic Preparedness Research Group

July 2023- Present

Supervisors: Prof. Marisa Miraldo, Prof. Katharina Hauck

Imperial College London**PRESENTATIONS****“Efficient Discovery of Cost-effective Policies in Sequential, Medical Decision-Making Problems”**

INFORMS Annual Meeting 2021- Online

Oct 2021

MSOM Conference 2022- Munich, Germany

June 2022

LondOps Seminar Series, London, UK

Feb 2023

ICBS Operations & Analytics Department Seminar- London, UK

April 2023

33rd POMS Annual Conference-Orlando, Florida

May 2023

Imperial President Scholar Symposium, London, UK

June 2023

INFORMS HealthCare Conference-Toronto, Canada

July 2023

Invited Talk at Sharif University of Technology, Tehran, Iran

Sep 2023

INFORMS Annual Meeting 2023- Phoenix, Arizona

Oct 2023

Health Economics Seminar Series, department of public health, Imperial College, London, UK

Dec 2023

Poster Presentation, London Operations Research Day, London Business School, London, UK

April 2024

Invited Talk at Cambridge Judge Business School, ETOM day, Cambridge, UK

June 2024

MSOM Conference 2024- Minneapolis, Minnesota

July 2024

“Optimal post-treatment recurrence surveillance: the case of head and neck cancer”

Invited Talk at The University of Chicago Medical School – Chicago, Illinois

October 2023

“Cost-Effective Surveillance Strategies for Early Detection of Cancer Recurrence: Optimal Integration of Imaging and ctDNA Testing”

Canadian Operations Research Society Conference – London, Canada

June 2024

COMPUTER SKILLS

R Programming, Latex, GAMS, Tableau, Microsoft Project (MSP), Microsoft office (Word, PowerPoint, Visio, Excel)

LANGUAGES

Persian– Native

English– Fluent

HOBBIES

Playing Piano, Traditional Iranian Calligraphy, Watching Movies, Listening to Music

Updated 13th July 2024