

# ABDELHALIM HIASSAT

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Google Scholar

in hiassat

Waterloo, ON, Canada

## SUMMARY OF QUALIFICATIONS

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- 7+ years of academic research experience in operations research, with focus on healthcare systems modeling and policy evaluation.
- Exceptional analytical skills and a strong drive to solve problems.
- High adaptability and flexibility, as demonstrated by working on different projects and 5+ years of teaching experience in industrial engineering and management sciences at the undergraduate and graduate levels.
- Excellent communication skills, both orally and written, demonstrated through teaching and writing and reviewing articles.
- Proven leadership skills as shown by leading student organizations and co-organizing an academic conference.
- Multiple academic awards, including full scholarships, totaling more than US\$200,000.

## SELECTED PROJECTS

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### Resource Allocation in Colorectal Cancer Screening, Ph.D. Research University of Waterloo

📅 2016 – Ongoing

📍 Waterloo, ON, Canada

- Formulated a population-based deterministic and stochastic models for a colorectal cancer screening program.
- Analyzed cancer-related data through public databases and medical records.
- Used data analytics methods to extract relevant problem parameters.
- Used C++ programming language and CPLEX libraries to run experiments of different parameters and initial conditions.
- Communicated research findings through presentations at international conferences.

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### Reliable Location Model with Patient Preference, Ph.D. Research University of Waterloo

📅 2012 – 2016

📍 Waterloo, ON, Canada

- Formulated mathematical models for a system of potential facility locations and patient demand.
- Designed and implemented solution algorithm to solve the model in reasonable time with guidance from supervisors.
- Used C++ programming language and CPLEX to test the solution methodology.
- Communicated research findings through peer-reviewed journal article and presentations at international conferences.

## RELEVANT EXPERIENCE

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### Lecturer University of Waterloo

📅 2016 – Ongoing

📍 Waterloo, ON, Canada

- Successfully communicated challenging topics in Operations Research, Probability and Statistics, and Data Analytics with graduate and undergraduate students.
- Collaborated with colleagues to better understand students' needs and aspirations.
- Adapted courses' content to program requirements and students background.
- Managed and mentored multiple TAs and guided them through their skill development.

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### President Waterloo Student Chapter, Canadian Operational Research Society

📅 2016 – 2017

📍 Waterloo, ON, Canada

- Restarted the activities of the Chapter, and generated interest from students to join.
- Initiated regular activities and coordinated the help from Chapter members.
- Secured logistical and financial support from external sources.
- Co-organized the Southwestern Operations Research Day (SWORD) in April 2017 with speakers from Canada and the U.S.

## EDUCATION

Ph.D. in Management Sciences  
**University of Waterloo**

📅 Aug 2017  
📍 Waterloo, ON, Canada

M.Sc. in Engineering Systems and Management  
**Masdar Institute of Science and Technology**

📅 2012  
📍 Abu Dhabi, UAE

B.Sc. in Industrial Engineering  
**University of Jordan**

📅 2010  
📍 Amman, Jordan

## TECHNICAL SKILLS

Engineering Tools: Matlab GAMS CPLEX Microsoft Excel/VBA Minitab WEKA Primavera

Programming: C/C++ R Python  $\LaTeX$

Technical Writing:  $\LaTeX$  Microsoft Word Apache Open Office

Technical Drawing:  $\LaTeX$  Microsoft Visio

## ADDITIONAL EXPERIENCE

Teaching Assistant  
**University of Waterloo**

📅 2012 – 2017  
📍 Waterloo, ON, Canada

Master's Researcher  
**Masdar Institute of Science and Technology**

📅 2010 – 2012  
📍 Abu Dhabi, UAE

Research Analyst  
**Arab Advisors Group**

📅 2010  
📍 Amman, Jordan

Industrial Engineer Intern  
**Royal Jordanian Airlines**

📅 2009  
📍 Amman, Jordan

## PROFESSIONAL DEVELOPMENT

Certificate in University Teaching  
**Centre for Teaching Excellence, University of Waterloo**

📅 2014 – 2017  
📍 Calgary, AB, Canada

Summer School on Optimization  
**Department of Mathematics and Statistics, University of Calgary**

📅 2013  
📍 Calgary, AB, Canada

Student Leadership Program Courses  
**Student Success Office, University of Waterloo**

📅 2013  
📍 Waterloo, ON, Canada

Fundamentals of University Teaching Certificate  
**Centre for Teaching Excellence, University of Waterloo**

📅 2012 – 2013  
📍 Waterloo, ON, Canada

Young Future Energy Leaders  
**Masdar Institute of Science and Technology**

📅 2010 – 2012  
📍 Abu Dhabi, UAE

Abdelhalim Hiassat  
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