

ZULQARNAIN HAIDER

ENG 302, IMSE, University of South Florida, Tampa Florida, 33620

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EDUCATION

University of South Florida, Tampa

PhD candidate, Industrial and Systems Eng. / Operations Research

Tampa, FL

GPA: 3.66/4.0

Relevant Coursework: Linear Programming, Integer Programming, Nonlinear Programming, Multiobjective Optimization, Advanced Analytics I, II, Theory of Algorithms, Stochastic Methods, Simulation and Stochastic Modeling, Deep Learning, Stochastic Decision Models

University at Buffalo, The State University of New York

Master of Science, Industrial and Systems Eng. / Operations Research

Certified Black Belt Lean Six Sigma Professional

Fulbright Scholarship

Buffalo, NY

September 2014

GPA: 3.83/4.0

Omega-Rho Honors

University of Engineering & Technology

Bachelor of Science in Electrical Engineering

Lahore, Pakistan

July 2010

GPA: 3.4/4.0

RESEARCH EXPERIENCE AND PROJECTS

- **Research Interests:** Mixed Integer Linear Programming, Routing and Scheduling Problems, Multi Objective Optimization, Shared mobility, Conservation Planning, Healthcare systems, Public service systems, Machine Learning, Deep Learning
- **Research Skills:** JAVA, R, MATLAB, PYTHON, JULIA, ArcGIS, CPLEX, GUROBI, @RISK, Minitab, Six Sigma, Lean
- **Journal Articles:**
 1. Journal article published in Ecological Modeling: "Haider Zulqarnain, Hadi Charkhgard, and Changhyun Kwon. "A robust optimization approach for solving problems in conservation planning."
 2. Journal Article published in European Journal of Operations Research (EJOR): "Haider, Z.*, A. Nikolaev, J. E. Kang, C. Kwon, "Inventory Rebalancing through Pricing in Public Bike Sharing Systems".
- **Work in Progress:**
 1. "Spatial conservation planning under uncertainty: applying multi-criteria decision analysis and modern portfolio theory to adapt conservation networks to climate change"- *To be submitted*
 2. "Optimizing the Operations of a Free Floating Electric Car Sharing System" -
 3. "Biobjective Autonomous Vehicle Repositioning Problem with Travel Time Uncertainty"

TEACHING EXPERIENCE (2 years)

Suleman Dawood School of Business, Lahore University of Management Sciences, Pakistan

Oct 2014- to Date

Optimization Methods in Management Science

Introduction to Management Science

Introduction to Business Process Modeling

Transportation and Logistics Management

PROFESSIONAL EXPERIENCE (3 years)

CHC Inc. Buffalo NY (*Black Belt Lean Six Sigma Professional*)

July 2013-to Dec 2013

Nestle SA, Pakistan (*CAPEX Project Engineer*)

July 2011-to Sep 2012

Nestle SA, Pakistan (*Engineering Management Trainee*)

August 2010 –to July 2011

Extracurricular: VP INFORMS @ USF; Student writer- INFORMS 2018; Editorial board member, OR/MS Tomorrow; President, University Debating society