

BURLA ECE ONDES

School of Industrial Engineering, Purdue University
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EDUCATION	<i>Ph.D. in Industrial Engineering</i>	2019 - 2024 (expected)
	Purdue University West Lafayette, IN	
	Thesis topic: Multi-objective simulation optimization	
	Advisor: Prof. Susan R. Hunter	
	<i>M.S. in Statistics and Computer Science</i>	2021 - 2022 (expected)
	Purdue University, West Lafayette, IN	
	<i>M.S. in Industrial Engineering</i>	2019 - 2021 (expected)
	Purdue University, West Lafayette, IN	
	<i>B.S. in Industrial and Systems Engineering</i>	2019
	University of Florida, Gainesville, FL	
	Summa Cum Laude	
RESEARCH INTEREST	Simulation optimization, computational complexity and machine learning algorithms	
WORKING PAPERS	Ondes, B. E., Hunter, S. R. 2021. An upper bound on the Hausdorff distance between a Pareto set and its discretization in bi-objective convex quadratic optimization. http://www.optimization-online.org/DB_HTML/2021/05/8394.html	
RESEARCH EXPERIENCE	<i>Graduate Research Assistant</i>	2019 – present
	advised by Prof. Susan R. Hunter	
	School of Industrial Engineering, Purdue University	
	Deriving performance bounds for multi-objective simulation optimization algorithms	
	<i>Undergraduate Researcher</i>	2019
	advised by Prof. Hongcheng Liu	
	Department of Industrial and Systems Engineering, University of Florida	
	Modeled an optimization problem to predict the impact of weighting parameters which determines trade-offs between organs in Inverse Radiotherapy Treatment Planning (IRTP) and utilized reinforcement learning (RL) algorithms to develop a solution methodology for the problem	
	<i>Undergraduate Researcher</i>	2018
	advised by Prof. Panos Pardalos	
	Department of Industrial and Systems Engineering, University of Florida	
	Conducted literature review for robustness, networks and graph theory	
TEACHING EXPERIENCE	<i>Graduate Teaching Assistant</i>	2019
	School of Industrial Engineering, Purdue University	
	IE 230: Probability and Statistics in Engineering I (Fall 2019), class size: ≈ 180	

Undergraduate Teaching Assistant 2018 – 2019
Department of Industrial and Systems Engineering, University of Florida
ESI 4313: Operations Research II (Fall 2018), class size: ≈ 50
ESI 4523: Industrial Systems Simulation (Spring 2019), class size: ≈ 50

HONORS AND AWARDS Awarded Dr. Theodore J. and Isabel M. Williams Fellowship in Industrial Control Systems, School of Industrial Engineering, Purdue University, 2020

Ranked third in EBEC (European Board of European Students of Technology (BEST) Engineering Competition), Middle East Technical University, 2016

Ranked in first 0.1 percentile in over 2 millions students in Turkish national university entrance exam, 2015

Ranked in the top six mathematics projects among more than 40 projects in Scientific and Technological Research Council of Turkey's national high school mathematics project competition, 2013

LEADERSHIP *Mentoring Chair* 2021 – present
Engineering Academic Career Club, Purdue University

Treasurer and Chair of Social Activities 2019 – 2021
INFORMS Student Chapter, Purdue University

SERVICE Judge at the SURF e-Symposium, Purdue University, 2021

Tutor for ECE 201: Linear Circuit Analysis I, School of Industrial Engineering, Purdue University, 2020

Undergraduate Learning Assistant (Volunteer) for MAC 2311: Analytic Geometry and Calculus I, Department of Mathematics, University of Florida, 2019

CERTIFICATES AND SKILLS *Certificates*
Institute of Industrial Engineering(IISE) Six Sigma Green Belt Certificate

Languages
English: Full professional proficiency, Turkish: Native or bilingual proficiency, German: Limited working proficiency

Computer Languages and Software
MatLab, SQL, Python, Julia and VB.Net
ARENA, GAMS and KeyCreator (CAD) software

PROFESSIONAL SOCIETIES INFORMS, INFORMS Simulation Society, INFORMS Computing Society, INFORMS Analytics Society, INFORMS Women in ORMS Forum