BURLA ECE ONDES

School of Industrial Engineering, Purdue University
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EDUCATION	*Ph.D. in Industrial Engineering*	Aug 2019 - Dec 2024
	Purdue University West Lafayette, IN | GPA: 3.56	
	M.S. in Industrial Engineering	May 2022
	Purdue University, West Lafayette, IN | GPA: 3.77	
	B.S. in Industrial and Systems Engineering	Aug 2019
	University of Florida, Gainesville, FL | GPA: 3.75, Summa Cum Laude	

RESEARCH INTEREST
Simulation optimization, multi-objective optimization

PUBLICATIONS

B. E. Ondes and S. R. Hunter. 2022. An upper bound on the Hausdorff distance between a Pareto set and its discretization in bi-objective convex quadratic optimization. *Optimization Letters*. `https://doi.org/10.1007/s11590-022-01920-7`

S. R. Hunter and B. E. Ondes. 2023. Properties of several performance indicators for global multi-objective simulation optimization. *Proceedings of the 2023 Winter Simulation Conference*, IEEE, Piscataway, NJ

WORK EXPERIENCE

Operations Research and Simulation Intern — Jan 2023 – Jan 2024
Bayer Crop Science, Decision Science
Applied data-driven approaches to simulate real-world scenarios, to optimize scheduling problems for improved performance and strategic decision-making

RESEARCH EXPERIENCE

Graduate Research Assistant — Aug 2019 – Dec 2022
advised by Prof. Susan R. Hunter
School of Industrial Engineering, Purdue University
Deriving error bounds for multi-objective simulation optimization algorithms

Graduate Research Assistant — May 2022 – Aug 2022
advised by Prof. Jordan A. Awan
Department of Statistics , Purdue University
Used expectation maximization algorithm in the context of differential privacy

Undergraduate Researcher — Oct 2018 - Aug 2019
advised by Prof. Panos Pardalos and Prof. Hongcheng Liu
Department of Industrial and Systems Engineering, University of Florida

HONORS AND AWARDS

Graduate Women in Engineering Travel Grant — Feb 2022
GWEN Symposium, Purdue University

Dr. J. and Williams Fellowship in Industrial Control Systems — Aug 2020
School of Industrial Engineering, Purdue University

3rd place in METU BEST Case Competition — Mar 2016

TEACHING EXPERIENCE	*Graduate Teaching Assistant*	Aug 2019 - Dec 2022

TEACHING EXPERIENCE

Graduate Teaching Assistant   Aug 2019 - Dec 2022
School of Industrial Engineering, Purdue University
IE 230: Probability and Statistics in Engineering I (Fall 2019, class size: ≈ 180),
(Fall 2022, class size: ≈ 240)

Undergraduate Teaching Assistant   Oct 2018 – May 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)

LEADERSHIP

Leadership Team Member   April 2022 – Present
Graduate Women in Engineering Network, Purdue University

Mentoring Chair   May 2021 – Aug 2022
Engineering Academic Career Club, Purdue University

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

SERVICE

Judge at PURC Poster Session   Dec 2022
Purdue University

Judge at SURF e-Symposium   Aug 2021
Purdue University

Learning Assistant   Jan 2019 - May 2019
MAC 2311: Analytic Geometry and Calculus I
Department of Mathematics, University of Florida

CERTIFICATES AND SKILLS

Certificates
Institute of Industrial Engineering (IISE) Six Sigma Green Belt Certificate
Quantum Programming Workshop for Purdue Women Engineers and Scientists

Languages
English: Full professional proficiency, Turkish: Native or bilingual proficiency

Computer Languages, Commercial Solvers and Software
MatLab, Python, VB.Net, ARENA and CPLEX, GAMS

SOCIETIES

INFORMS Simulation Society, International Society of MCDM, INFORMS Computing Society, INFORMS Women in ORMS Forum, SWE, Purdue WIEP

PERSONAL

Citizenship
United States of America and Turkey