

BURLA ECE ONDES

School of Industrial Engineering, Purdue University
Grissom Hall, 315 N. Grant Street
Tel: +1 904 315 2867, Email: bondes@purdue.edu
Web: <https://burlaondes.github.io/>
Linkedin: <https://www.linkedin.com/in/burlaondes>

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| EDUCATION | <i>Ph.D. in Industrial Engineering</i> | 2019 - Present |
| | 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> | May 2023 (expected) |
| | Purdue University, West Lafayette, IN | |
| | <i>M.S. in Industrial Engineering</i> | May 2022 (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 | |

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| | <p><i>Undergraduate Teaching Assistant</i> 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</p> |
| HONORS AND AWARDS | <p>Awarded Dr. Theodore J. and Isabel M. Williams Fellowship in Industrial Control Systems, School of Industrial Engineering, Purdue University, 2020</p> <p>Ranked third in EBEC (European Board of European Students of Technology (BEST) Engineering Competition), Middle East Technical University, 2016</p> <p>Ranked in first 0.1 percentile in over 2 millions students in Turkish national university entrance exam, 2015</p> <p>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</p> |
| LEADERSHIP | <p><i>Mentoring Chair</i> 2021 – Present Engineering Academic Career Club, Purdue University</p> <p><i>Treasurer and Chair of Social Activities</i> 2019 – 2021 INFORMS Student Chapter, Purdue University</p> |
| SERVICE | <p>Judge at the SURF e-Symposium, Purdue University, 2021</p> <p>Tutor for ECE 201: Linear Circuit Analysis I, School of Industrial Engineering, Purdue University, 2020</p> <p>Undergraduate Learning Assistant (Volunteer) for MAC 2311: Analytic Geometry and Calculus I, Department of Mathematics, University of Florida, 2019</p> |
| CERTIFICATES AND SKILLS | <p><i>Certificates</i> Institute of Industrial Engineering(IISE) Six Sigma Green Belt Certificate</p> <p><i>Languages</i> English: Full professional proficiency, Turkish: Native or bilingual proficiency, German: Limited working proficiency</p> <p><i>Computer Languages and Software</i> MatLab, SQL, Python, Julia and VB.Net ARENA, GAMS and KeyCreator (CAD) software</p> |
| PROFESSIONAL SOCIETIES | <p>INFORMS, INFORMS Simulation Society, INFORMS Computing Society, INFORMS Analytics Society, INFORMS Women in ORMS Forum</p> |