Bryan Ortiz-Torres

Research Assistant

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1513 Unv Ave, Madison, WI 53706

Education

Ph.D.	Universit
May 2022 - Present	Industrial

BSc. Aug 2016 - May 2022 University of Wisconsin Madison Industrial & Systems Engineering

University of Puerto Rico at MayagüezMay 2022Industrial Engineering - Magna Cum Laude

Teaching Experience

Teaching Assistant & Lab Instructor Jan 2022 – May 2022	 Industrial Engineering Department, UPRM Dr. David González-Barreto ININ 4078: Quality Control Assisted professor and students in the Statistical Quality Control course. Prepared materials and conducted laboratory class for 35+ students. Graded undergraduate student's exams and laboratory reports.
Feaching Assistant Jan 202021 - Dec 2021	 Industrial Engineering Department, UPRM Dr. Mayra Mendez-Piñero ININ 4015: Engineering Economic Analysis Helped the professor in the design of exams and assignments for the class. Graded students exams and assignments.
Research Experience	
DAtABioMS Researcher Aug 2019 – May 2022	 Automated Cut-off Feature Selection Approach (UPRM) Advisor: Dr. Wandaliz Torres-García Worked on a research area that aims to fine-tune an innovative automatic cut-off feature selection methodology using omics data.
	 Molecular Characterization of Chimeric Antigen Receptor T-Cells (UPRM) Advisor: Dr. Wandaliz Torres-García Intending to characterize important attributes of cellular therapies that will help monitor safe and potent treatments early in their manufacturing process implementing unsupervised learning techniques to assess donor-to-donor variability.
Researcher Ian 2021 - May 2021	 Study of Emotion and Social Media Consumption in Puerto Rico (UPRM) Advisor: Dr. Saylisse Dávila Aimed to explore emotions and consumption in social media between users in Puerto Rico using Sentiment Analysis, Unsupervised Learning, and data from Twitter API.

Researcher

June 2021 - Aug 2021

Performance Assessment of PR-22 Dynamic Toll Lanes (UPRM) Advisor: Dr. Alberto Figueroa & Daniel Rodríguez

• Performed regression and classification analysis to identify important characteristics of dynamic toll lane users in Puerto Rico.

Industry Experience

Capstone Design Student Jan 2022 – May 2022	 Edwards Lifesciences Añasco, Puerto Rico Supervisor: Mara Ruiz & Dr. Lourdes Medina Designed, planned, and executed an engineering experiment to meet quality standards. Performed a time study and ergonomic evaluation to assess new production line needs. Created a discrete simulation to match the desired production rate of the line by using line balancing.
Global Planning Coop Aug 2021 - Dec 2021	 Ethicon LLC (Johnson & Johnson) Guaynabo, Puerto Rico Supervisor: Dr. Aixa Cintrón Worked in the creation of finished goods, inventory costs, production schedules and consumption projections reports for the Planning Division used to take decisions in the Global Supply Chain Network.
Supply Chain Coop Jan 2020 - Aug 2020	 Merck & Co., Inc. Las Piedras, Puerto Rico Supervisor: Dr. José Rivera Designed a standard and sustainable approach methodology to improve laboratory efficiency and lead time up to 80% while reducing overtime costs as part of a global initiative to achieve world class performance. Enhanced communication channels between manufacturing and quality divisions by designing a more efficient tier process. Applied and analysed KPI's of the laboratory and worked in the creation of Bill of Materials.
Project Student Jan 2021 - May 2021	 Villa Design Aguada, Puerto Rico Advisor: Dr. Cristina Pomales Proposed a time study, a layout design, and a prediction model to standardize work and establish compensations to improve the company's profits and performance.
Project Student Jan 2021 - May 2021	 INDULAC Inc. San Juan, Puerto Rico Advisor: Glorimar López Developed an ergonomic evaluation of one of the industry's tasks using RULA, REBA and NIOSH equation to propose recommendations considering the limits and capacities of the institution.
Projects	
Dec 2021	Allocation of Resources for a Blood Bag production line: A Discrete Event Simulation

Approach
Used discrete event simulation methodology to study and redesign a Blood Bag production line facing an increase in demand.

May 2021

The Outdoor Footwear Co, Inc: Facilities Layout Design

• Proposed a more efficient layout by reducing the traveled distance between departments and transportation costs by at least 26% using the Systematic Layout Planning methodology

Awards & Honors

Feb 2022	GERS Fellowship (UW-Madison)
Aug 2018 – May 2022	Honor Roll Department of Industrial Engineering (UPRM)
Aug 2019 – May 2022	Puerto Rico Louis Stokes Alliance for Minority Participation (PR-LSAMP)
	 Receiver of a scholarship, sponsored by NSF, which aims to help minority STEM students continue graduate studies.
Nov 2020	Boston Scientific Scholarship
	 Recipient of this scholarship due to my academic achievement and interest in the medical devices industry.
Oct 2018 – May 2022	Engineering Pearls Program (UPRM)
	 Chosen among 90 of 2,000+ students to be part of a college-wide initiative, sponsored by NSF, to receive individualized career mentoring, soft-skills training, and peer- mentor activities.
Aug 2016	Credicentro Coop Scholarship
	 Awarded this academic scholarship due to my outstanding academic result and promotion of cooperative values.
Aug 2016	Mayor's Scholarship
	 Sole receiver of an academic based scholarship by being the top-ranking student in my hometown.

Leadership & Organizations

Member Aug 2019 – May 2022	DAtABioMS Research Group
Member Jan 2021 – May 2022	Socially Responsible Operations Center
Guidance Counselor Aug 2017 – May 2022	Counseling and Psychological Services Department
Councilor Aug 2017 – May 2021	Faculty of Engineering Students Council
Mentor Jan 2019 – Dec 2019	Peer-Lead Team Learning (PLTL)
Project Manager Aug 2018 – Dec 2018	Colegio Racing Engineering – FSAE UPRM
Logistics Coordinator Jan 2018 – May 2018	Society of Hispanic Professional Engineers (SHPE-UPRM)

Vice President & Co Founder Jan 2014 – May 2016	El Cemí Barranquiteño Cooperative
Regional Vice President Aug 2014 – May 2016	Future Business Leaders of America
Coursework	
Graduate Undergraduate	Data Mining, Systems Simulation Applied Statistics, Statistical Quality Control, Design of Experiments, Production Systems, Operations Research, Engineering Economic Analysis, Cost Management, Ergonomics, Work Measurement, Facilities Planning & Real Time Process Control
Additional Skills	
Statistical Tools Programming Applications Languages Trainings	R Studio, Minitab Python, C, Matlab, SQL & Lingo Simio, AutoCAD, Fusion 360, SketchUp, SAP, Productivity (Automation Direct) Spanish (native), English (proficient) cGMP's, Data Integrity, Industrial Safety
Conferences & Worksh	ops
Nov 2021 Sep 2021 Apr 2021 Sep 2020 Mar 2019	OPPS University of Wisconsin-Madison IOE Graduate School Workshop University of Michigan Junior Technical Meeting & the Puerto Rico Interdisciplinary Scientific Meeting (PRISM) O4U Engineering Conference Goldman Sachs Pride Summit
References	
Dr. Sonia Bartolomei sonia.bartolomei1@upr.ec	Dr. David GonzálezDr. Wandaliz TorresduDavid.gonzalez6@upr.eduwandaliz.torres@upr.edu
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