

Arielle E. Anderer

Contact:

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Academic Position:

Cornell University, SC Johnson College of Business, Ithaca, NY
Operations, Technology, and Information Management, 2023-present

Education:

The University of Pennsylvania, The Wharton School, Philadelphia, PA
PhD in Operations Management, May 2023

Cornell University, College of Engineering, Ithaca, NY
Bachelor of Science *magna cum laude* in Operations Research, May 2018

Research Interests:

Healthcare Operations Management
Healthcare Analytics
Adaptive Learning Algorithms
Multi-Armed Bandits & Machine Learning
Data-driven policy evaluation

Published Papers:

- **Adaptive Clinical Trial Designs with Surrogates: When Should We Bother?**
(with Hamsa Bastani and John Silberholz)
1st Place, Pierskalla Award for Best Paper in Healthcare (2019)
1st Place, MSOM Student Paper Competition (2019)
Finalist, Public Sector Operations Research Best Paper Award (2019)
Management Science 2022

Working Papers:

- **Online Learning with Randomized Neural Networks**
(with Divya Singhvi)
- **Survival Bandits**
(with Hamsa Bastani and John Silberholz)
- **Learning Innovation Curves**
(with Christian Kaps)

Honors & Awards:

- **Bonder Scholarship**, 1st place November 2020
- **MSOM Student Paper Competition**, 1st place November 2020
- **Public Sector Operations Research Best Paper Award**, finalist November 2020
- **Pierskalla Award for Best Paper in Healthcare**, 1st place October 2019
- **Omega Rho Honor Society**, Cornell ORIE Department April 2018
- **Tau Beta Pi**, Cornell University March 2017

Teaching:

- **Cornell University, S.C. Johnson College of Business OTIM** August 2023- present
Johnson MBA Program Professor, Data Analytics and Modeling
Taught the Core MBA statistics and data analytics course. Introduced students to topics such as data visualization, probability, hypothesis testing, regression, and machine learning.
Dyson Undergraduate Program Professor, Intro to Business Statistics
Taught an elective on utilizing statistics and data analytics to solve real world problems. Students learn how to gather data, evaluate the quality of data, graphically represent data, and apply some fundamental statistical methodologies such as hypothesis testing, regression, and machine learning.
- **University of Pennsylvania, Wharton OI Department** August 2019- May 2023
MBA Program Teaching Assistant, Analytics for Revenue Management (OID 643), Spring 2023
Held office hours, answered student emails, checked and graded homework and exams.
MBA Program Teaching Assistant, Ops Management: Quality and Productivity (OID 611), Fall 2021
Moderated cases, answered student emails, checked, organized and graded homework and exams.
MBA Program Teaching Assistant, Operations Strategy (OID 615), Fall 2021
Held office hours, answered student emails, wrote answer keys for and graded homework and exams.
Executive MBA Program Teaching Assistant, Operations Strategy (OID 615), Summer 2021
Held office hours, answered student emails, wrote answer keys for and graded homework and exams.
Undergraduate Program Teaching Assistant, Intro to Management Science (OID 321), Fall 2019/Fall 2020/Spring 2023
Held office hours, wrote exams and new cases, advised students on final project topics, and graded final projects.
- **Cornell University Department of Operations Research** January 2017- May 2018
Undergraduate/Masters Program Teaching Assistant, Optimization II (ORIE 3310/5310), Spring 2017
Held office hours and graded homework and exams.
Undergraduate Program Teaching Assistant, Engineering Applications of Operations Research (ENGRI 1101), Fall 2017/Spring 2018
Held office hours, graded homework and exams, and ran the weekly lab covering applications of material.
- **Cornell University Department of Computer Science** August 2015- December 2017
Consultant, Introduction to Computing Using Python (CS 1110), Fall 2015/Spring 2016/Fall 2016/Spring 2017
Answered student questions on course material in office hours, during lab sessions, and via Piazza, and graded assignments and exams.
Teaching Assistant, Introduction to Computing Using Python (CS 1110), Fall 2017
Ran student lab sessions. Answered student questions on course material, graded assignments and exams
- **Cornell Engineering Learning Initiatives Ithaca, NY** August 2015- December 2016
Course Assistant, Introduction to Multivariable Calculus (MATH 1920), Fall 2015/ Spring 2015/ Fall 2016
Helped run workshops in recitation to help students connect course material to real life applications.

Employment:

- **University of Pennsylvania Center for Health Incentives and Behavioral Economics** June 2017- September 2017
Undergraduate Research Assistant
Worked with Christian Terwiesch, Kevin Volpp, and Kristin Linn on analyzing medication adherence data from patients after admission to hospitals for myocardial infarctions to discover readmissions patterns
- **Cornell University Department of Operations Research** February 2016- December 2016
Undergraduate Research Assistant
Worked with Professor Shane Henderson to create and maintain a repository of simulation optimization problems and algorithms (simopt.org) as well as to analyze the results of running different algorithms on different problems
- **Comcast Philadelphia, PA** May 2015- August 2015

Intern

Worked in the Engineering Analysis Department, helping with Data visualization and analysis as well as some forecasting for their Video on Demand and High Speed Data Networks. Also spent time working with Benjamin's Desk, a co-working space in Philadelphia, through one of Comcast's startup partnerships.

Invited Talks:

- **2024:** Computing Community Consortium AI/OR Workshop III, University of Rochester OM
- **2023:** Dartmouth Tuck OM, HBS TOM, Minnesota ISyE, U Toronto Rotman Young Scholar Seminar, MIT Data Science Lab, Eastern Great Lakes Analytics Conference
- **2022:** Tilburg University SCM Research Seminar, UBC Sauder Operations & Logistics, UNC Kenan-Flagler Operations, London Business School Management Science & Operations, CMU Tepper OM, Cornell Johnson OTIM, BC Carroll Business Analytics, Northwestern Kellogg OM, MIT Sloan OM
- **2021:** Carnegie Mellon University YinzOR Student Conference

Service:

- Member, Bonder Scholarship Award Committee 2024
- Judge, Pierskalla Award for Best Paper in Healthcare 2021 - 2024
- Judge, Public Service Operations Research Best Paper Award 2024
- Reviewer, Conference on Equity and Access in Algorithms, Mechanisms, and Optimization 2022
- Judge, Pennsylvania Technology Student Association State Conference 2021, 2022
- Organizer, Wharton Operations, Information & Decisions PhD Seminar Series 2020 - 2022
- Co-chair, Pierskalla Award for Best Paper in Healthcare 2020