

Gian-Gabriel Garcia

Assistant Professor
H. Milton Stewart School of Industrial and Systems Engineering
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I. Earned Degrees

University of Michigan, Ann Arbor, MI	
PhD, Industrial and Operations Engineering	8/2020
MS, Industrial and Operations Engineering	12/2016
University of Pittsburgh, Pittsburgh, PA	
BS, Industrial Engineering, <i>Summa Cum Laude</i>	12/2014

II. Employment History

Georgia Institute of Technology, Atlanta, GA	
Assistant Professor	8/2021-Present
H. Milton Stewart School of Industrial and Systems Engineering	
Harvard Medical School, Boston, MA	
Postdoctoral Fellow	7/2020-7/2021
Massachusetts General Hospital Institute for Technology Assessment	

III. Honors and Awards

A. International or National Awards

Panel Fellow, NSF CMMI Game Changer Academies	2022
Best Paper, IISE Transactions Focus Issue on <i>Operations Engineering & Analytics</i>	2021
SMDM Lee B. Lusted Prize in <i>Quantitative Methods & Theoretical Developments</i>	2020
First Prize, INFORMS Minority Issues Forum Paper Competition	2020
SMDM Lee B. Lusted Prize in <i>Quantitative Methods & Theoretical Developments</i>	2018
INFORMS Bonder Scholarship for Applied OR in Health Services	2018
INFORMS Minority Issues Forum Doctoral Colloquium Sponsorship	2018
First Prize, INFORMS Minority Issues Forum Poster Competition	2017
Finalist, INFORMS Bonder Scholarship for Applied OR in Health Services	2017
NSF Graduate Research Fellowship	2017-2020
Honorable Mention, Ford Foundation Fellowship Predoctoral Competition	2016, 2017

B. Institute or School Awards

University of Michigan, Ann Arbor, MI

Towner Prize for Distinguished Academic Achievement 2020

Departmental Nomination, Cornell ORIE Young Researchers Workshop 2019

IOE Graduate Student Instructor of the Semester Winter 2017

Honorable Mention, IOE Bonder Scholar Fellowship 2016

Rackham Merit Fellowship 2015-2020

IV. Research, Scholarship, and Creative Activities

* indicates work conducted at Georgia Tech.

Student coauthors advised/mentored by Dr. Garcia at Georgia Tech appear in **bold**.

Student coauthors supervised/mentored by Dr. Garcia outside of Georgia Tech appear in *italics*.

A. Academic Publications

A.1. Published and Accepted Journal Articles

- J15. *G.-G. P. Garcia, *R. Dehghanpoor*, E. J. Stringfellow, *M. Gupta*, *J. Rochelle*, *E. Mason*, T. Pujol, and M. S. Jalali (2022). Identifying and Characterizing Advice-Seekers for Recovery from Opioid Use Disorder: Social Media Analysis. *International Journal of Environmental Research and Public Health* (Accepted)
- Garcia and Dehghanpoor have equal contributions as authors
- J14. *G.-G. P. Garcia, E. J. Stringfellow, C. DiGennaro, *N. Poellinger*, *J. Wood*, S. Wakeman, and M. S. Jalali (2022). Opioid overdose decedent characteristics during COVID-19. *Annals of Medicine* **54**(1), 1081–1088.
- J13. ***C.-Y. Liao**, G.-G. P. Garcia, C. DiGennaro, and M. S. Jalali (2022). Racial Disparities in Opioid Overdose Deaths in Massachusetts. *JAMA Network Open* **5**(4), e229081.
- J12. G.-G. P. Garcia, *C. M. Schumb*, M. S. Lavieri, H. Koffijberg, T. W. McAllister, M. A. McCrea, and S. P. Broglio (2022). Developing Insights for Possible and Probable Acute Concussions Using Cluster Analysis. *Journal of Neurotrauma* **39**(1-2), 102–113.
- J11. C. DiGennaro, G.-G. P. Garcia, E. J. Stringfellow, S. Wakeman, and M. S. Jalali (2021). Changes in characteristics of drug overdose death trends during the COVID-19 pandemic. *International Journal of Drug Policy* **98**(Accepted), 103392.
- J10. *L. L. Czerniak*, S. W. Liebel, G.-G. P. Garcia, M. S. Lavieri, M. A. McCrea, T. W. McAllister, and S. P. Broglio (2021). Sensitivity and Specificity of Computer-Based Neurocognitive Tests in Sport-Related Concussion: Findings from the NCAA-DoD CARE Consortium. *Sports Medicine* **51**(2), 351–365.
- J9. S. W. Liebel, K. Van Pelt, G.-G. P. Garcia, *L. L. Czerniak*, M. A. McCrea, T. W. McAllister, and S. P. Broglio (2020). The Relationship between Sport-Related Concussion and Sensation-Seeking. *International Journal of Molecular Sciences* **21**(23), 9097.
- J8. G.-G. P. Garcia, *J. Yang*, M. S. Lavieri, T. W. McAllister, M. A. McCrea, and S. P. Broglio (2020). Optimizing Components of the Sport Concussion Assessment Tool for Acute Concussion Assessment. *Neurosurgery* **87**(5), 971–981.

- J7. G.-G. P. Garcia, M. S. Lavieri, R. Jiang, M. A. McCrea, T. W. McAllister, and S. P. Broglio (2020). Data-driven stochastic optimization approaches to determine decision thresholds for risk estimation models. *IIE Transactions* **52**(10), 1098–1121.
 - Best Paper, 2021 IIE Transactions Focus Issue on *Operations Engineering & Analytics*
 - Winner, 2020 INFORMS Minority Issues Forum Paper Competition
 - Winner, 2018 SMDM Lee B. Lusted Prize in *Quantitative Methods & Theoretical Developments*
 - First Place, 2017 INFORMS Minority Issues Forum Poster Competition
- J6. G.-G. P. Garcia, M. S. Lavieri, C. Andrews, X. Liu, M. P. Van Oyen, M. A. Kass, M. O. Gordon, and J. D. Stein (2019). Accuracy of Kalman Filtering in Forecasting Visual Field and Intraocular Pressure Trajectory in Patients With Ocular Hypertension. *JAMA Ophthalmology* **137**(12), 1416–1423.
- J5. G.-G. P. Garcia, M. S. Lavieri, R. Jiang, T. W. McAllister, M. A. McCrea, and S. P. Broglio (2019). A Data-Driven Approach to Unlikely, Possible, Probable, and Definite Acute Concussion Assessment. *Journal of Neurotrauma* **36**(10), 1571–1583.
- J4. G.-G. P. Garcia, K. Nitta, M. S. Lavieri, C. Andrews, X. Liu, E. Lobaza, M. P. Van Oyen, K. Sugiyama, and J. D. Stein (2019). Using Kalman Filtering to Forecast Disease Trajectory for Patients With Normal Tension Glaucoma. *American Journal of Ophthalmology* **199**, 111–119.
- J3. G. J. Schell, G.-G. P. Garcia, M. S. Lavieri, J. B. Sussman, and R. A. Hayward (2019). Optimal Coinsurance Rates for a Heterogeneous Population under Inequality and Resource Constraints. *IIE Transactions* **51**(1), 74–91.
- J2. G.-G. P. Garcia, S. P. Broglio, M. S. Lavieri, M. McCrea, and T. McAllister (2018). Quantifying the Value of Multidimensional Assessment Models for Acute Concussion: An Analysis of Data from the NCAA-DoD Care Consortium. *Sports Medicine* **48**(7), 1739–1749.
- J1. M. H. Mofrad, G.-G. P. Garcia, L. M. Maillart, B. A. Norman, and J. Rajgopal (2016). Customizing Immunization Clinic Operations to Minimize Open Vial Waste. *Socio-Economic Planning Sciences* **54**(March 2016), 1–17.

A.2. Other Refereed Material

Refereed Conference Abstracts

- O8. *J. B. Caccese, G.-G. P. Garcia, A. P. Kontos, N. L. Port, K. Valerio, S. P. Broglio, M. A. McCrea, T. W. McAllister, P. F. Pasquina, and T. A. Buckley (2022). Test-retest Reliability And Efficacy Of Individual Symptoms In Concussion Management. *ACSM Annual Meeting & World Congress*, San Diego, CA
- O7. *G.-G. P. Garcia, L. N. Steimle, W. J. Marrero, and J. B. Sussman (2022). An Analysis of Structured Optimal Policies for Hypertension Treatment Planning. *IIE Annual Conference*, Seattle, WA

- O6. G.-G. P. Garcia, M. S. Lavieri, T. W. McAllister, M. A. McCrea, and S. P. Broglio (2020). The Value of Incorporating Symptom-Reporting Behavior in Optimal Treatment Decisions: An Application to Return-to-Play from Sports-Related Concussion. *Society of Medical Decision Making 42nd Annual Meeting*, Chicago, IL
- O5. G.-G. P. Garcia, M. S. Lavieri, C. Andrews, X. Liu, M. P. Van Oyen, M. A. Kass, M. O. Gordon, and J. D. Stein (2019). Using a Machine Learning Technique Called Kalman Filtering to Forecast Conversion from Ocular Hypertension to Primary Open Angle Glaucoma. *The Association for Research in Vision and Ophthalmology*, Vancouver, BC
- O4. G.-G. P. Garcia, M. S. Lavieri, R. Jiang, M. A. McCrea, T. W. McAllister, and S. P. Broglio (2018). A Novel Data-Driven Framework for Improving Risk-Based Medical Diagnosis with Application to Acute Concussion Assessment. *Society of Medical Decision Making 40th Annual Meeting*, Montreal, QC
- O3. M. S. Lavieri, X. Liu, G.-G. P. Garcia, Z. Zhou, E. Lobaza, J. Wang, K. Sugiyama, K. Nitta, C. Andrews, M. P. Van Oyen, and J. D. Stein (2017). Using Kalman Filtering to Personalize the Monitoring of Persons with Normal Tension Glaucoma. *The Association for Research in Vision and Ophthalmology*, Baltimore, MD
- O2. G.-G. P. Garcia, M. S. Lavieri, and S. P. Broglio (2017). A Markov Decision Process to Model Symptom Self-Reporting Behavior in Concussion Management. *The 3rd Multidisciplinary Conference on Reinforcement Learning and Decision Making*, Ann Arbor, MI
- O1. G.-G. P. Garcia, M. S. Lavieri, and S. P. Broglio (2016). Quantifying Risk Thresholds for On-field Concussion Diagnosis. *Industrial and Systems Engineering Research Conference*, Anaheim, CA

A.3. Submitted Journal Articles

- R4. *G.-G. P. Garcia, M. S. Lavieri, T. W. McAllister, M. A. McCrea, and S. P. Broglio (2022). Reducing the Price of Naivete in Return-to-play from Sports-related Concussion. (Submitted)
 - Winner, 2020 SMDM Lee B. Lusted Prize in *Quantitative Methods & Theoretical Developments*
- R3. *L. L. Czerniak, S. W. Liebel, H. Zhou, G.-G. P. Garcia, M. S. Lavieri, M. A. McCrea, T. W. McAllister, S. P. Broglio, and CARE Consortium Investigators (2022). Sensitivity and Specificity of the ImPACT Neurocognitive Test in Collegiate Athletes and United States Military Cadets with ADHD and/or LD: Findings from the NCAA-DoD CARE Consortium. (Submitted)
- R2. *J. B. Caccese, G.-G. P. Garcia, A. P. Kontos, N. L. Port, K. Valerio, S. P. Broglio, M. A. McCrea, T. W. McAllister, P. F. Pasquina, and T. A. Buckley (2022). Test-Retest Reliability and Efficacy of Individual Symptoms in Concussion Management. (Under revision)
- R1. *G.-G. P. Garcia, L. N. Steimle, W. J. Marrero, and J. B. Sussman (2022). An Analysis of Structured Optimal Policies for Hypertension Treatment Planning: The Tradeoff Between Optimality and Interpretability. (Under revision).

- Pre-print: http://www.optimization-online.org/DB_HTML/2021/08/8539.html

A.4. Submitted Conference Articles

- S1. *G.-G. P. Garcia, L. L. Czerniak, M. S. Lavieri, S. W. Liebel, M. A. McCrea, T. W. McAllister, P. F. Pasquina, and S. P. Broglio (2022). Simulation-Optimization to Distinguish Optimal Symptom Free Waiting Period for Return-to-play Decisions in Sports-related Concussion. *Proceedings of the 2022 Winter Simulation Conference* (Submitted)
- Garcia and Czerniak have equal contributions as authors

A.5. Articles in Preparation

- P3. *S. W. Liebel, C. G. Turner, A. C. Svirsko, G.-G. P. Garcia, P. F. Pasquina, T. W. McAllister, M. A. McCrea, S. P. Broglio, and CARE Consortium Investigators (2022). Temporal Network Architectures of Neurocognitive Functioning and Psychological Symptoms in Collegiate Athletes Following Sport-related Concussion: A CARE Consortium Investigation. (Working Paper)
- P2. *G.-G. P. Garcia, M. S. Lavieri, S. W. Liebel, K. Van Pelt, T. W. McAllister, M. A. McCrea, S. P. Broglio, and CARE Consortium Investigators (2021). Tailoring the Symptom-Free Waiting Period in Return-to-Play from Concussion: A Simulation Analysis Using CARE Consortium Data. (Working Paper)
- P1. *G.-G. P. Garcia, N. Ghaffarzadegan, and M. S. Jalali (2021). Analyzing "Optimal" Diagnosis Policies for Post-traumatic Stress Disorder in the Presence of Social Stigma. (Working Paper)

B. Presentations

B.1. Invited Conference and Workshop Presentations

14. *G.-G. P. Garcia (2022). Optimal Clinical Assessment and Return to Play After Concussion. *5th Annual NCAA-US Department of Defense Grand Alliance Concussion Conference* (Virtual meeting)
13. *G.-G. P. Garcia, L. N. Steimle, and W. J. Marrero (2021). An Analysis of Structured Optimal Policies for Hypertension Treatment Planning: The Tradeoff Between Optimality and Interpretability. *INFORMS Annual Meeting*, Anaheim, CA
12. *G.-G. P. Garcia, M. S. Lavieri, T. W. McAllister, M. A. McCrea, and S. P. Broglio (2021). Estimating the Value of Incorporating Patient Behavior in Return to Play from Concussion. *INFORMS Annual Meeting* (Bonder Scholars Session), Anaheim, CA
11. G.-G. P. Garcia, C. DiGennaro, E. J. Stringfellow, J. Wood, N. Poellinger, and M. S. Jalali (2021). A Multi-state Analysis of Opioid Overdose Death Trends Since the Onset of COVID-19. *INFORMS Healthcare* (Invited Session), Virtual Meeting

10. G.-G. P. Garcia, L. N. Steimle, and W. J. Marrero (2021). An Analysis of Structured Optimal Policies for Hypertension Treatment Planning. *INFORMS Healthcare* (Bonder Scholars Session), Virtual Meeting
9. G.-G. P. Garcia, M. S. Lavieri, T. W. McAllister, M. A. McCrea, and S. P. Broglio (2020). The Value of Incorporating Symptom-Reporting Behavior in Return-to-play from Concussion. *INFORMS Annual Meeting* (Bonder Scholars Session), National Harbor, MD
8. G.-G. P. Garcia, M. S. Lavieri, and S. P. Broglio (2019). Optimizing Treatment Decisions Under Strategically Reported Symptoms. *INFORMS Annual Meeting* (Bonder Scholars Session), Seattle, WA
7. G.-G. P. Garcia, M. S. Lavieri, R. Jiang, T. W. McAllister, M. A. McCrea, and S. P. Broglio (2019). Data-driven Stochastic Optimization Approaches to Determine Decision Thresholds for Risk Estimation Models. *INFORMS Annual Meeting* (Invited Session), Seattle, WA
6. G.-G. P. Garcia, J. Yang, M. S. Lavieri, T. W. McAllister, M. A. McCrea, and S. P. Broglio (2019). Doing More with Less: Applying Modern Predictive Modeling Methods to Improve Acute Concussion Assessment. *INFORMS Healthcare* (Bonder Scholars Session), Boston, MA
5. G.-G. P. Garcia, M. S. Lavieri, T. W. McAllister, M. A. McCrea, and S. P. Broglio (2019). Optimizing Treatment Decisions Under Objective Clinical Measures and Strategically Reported Symptoms. *INFORMS Healthcare* (Invited Session), Boston, MA
4. G.-G. P. Garcia, M. S. Lavieri, and S. P. Broglio (2018). Optimization Approaches for Concussion Management Decisions. *INFORMS Annual Meeting* (Invited Session), Phoenix, AZ
3. G.-G. P. Garcia, M. S. Lavieri, and S. P. Broglio (2018). Data-driven Optimization Models for Concussion Management Decisions. *INFORMS Annual Meeting* (Bonder Scholars Session), Phoenix, AZ
2. G.-G. P. Garcia, M. S. Lavieri, R. Jiang, M. McCrea, T. W. McAllister, S. P. Broglio, and CARE Consortium Investigators (2017). A Novel Framework to Determine Decision Thresholds for Medical Diagnosis. *INFORMS Annual Meeting* (Invited Session), Houston, TX
1. G.-G. P. Garcia, M. S. Lavieri, and S. P. Broglio (2016). An Optimization Approach to Concussion Management. *INFORMS Annual Meeting* (Invited Session), Nashville, TN

B.2. Conference and Workshop Presentations

2. *C. G. Turner, A. Svirsko, G.-G. P. Garcia, and S. W. Liebel (2021). Temporal Network Architectures of Neurocognitive and Psychological Symptoms in Collegiate Athletes with Sports-related Concussion. *INFORMS Annual Meeting*, Anaheim, CA
1. G.-G. P. Garcia, M. S. Lavieri, R. Jiang, T. W. McAllister, M. A. McCrea, and S. P. Broglio (2019). Data-driven Stochastic Optimization Approaches to Determine Decision Thresholds for Risk Estimation Models. *ORIE Young Investigators Workshop*, Cornell University

B.3. Invited Seminar Presentations

5. *Optimizing Acute Concussion Assessment: Insights from Predictive Analytics
 - Advancing Concussion Care, Synaptek, May 2022
4. *An Analysis of Structured Optimal Policies for Hypertension Treatment Planning: The Tradeoff Between Optimality and Interpretability
 - Center for Machine Learning, Georgia Tech, March 2022
 - Department of Industrial and Systems Engineering, Virginia Tech, November 2021
3. Predictive and Prescriptive Analytics for Concussion Management Decisions
 - MGH Institute for Technology Assessment, Harvard Medical School, August 2020
 - Department of Industrial and Systems Engineering, University of Minnesota, January 2020
 - Department of Industrial Engineering, Clemson University, January 2020
 - School of Industrial Engineering and Regenstrief Center for Healthcare Engineering, Purdue University, December 2019
 - H. Milton Stewart School of Industrial and Systems Engineering, Georgia Tech, December 2019
 - Department of Industrial and Systems Engineering, University of Florida, December 2019
2. Data-driven Decision Thresholds for Risk Estimation Models with Application to Acute Concussion Assessment
 - Edward P. Fitts Department of Industrial & Systems Engineering Department, North Carolina State University, April 2019
1. Data-driven Optimization for Concussion Management Decisions
 - Department of Industrial and Operations Engineering, University of Michigan, September 2018

B.4. Other Presentations

11. L. L. Czerniak, S. W. Liebel, G.-G. P. Garcia, M. S. Lavieri, M. A. McCrea, T. W. McAllister, and S. P. Broglio (2020). Sensitivity and Specificity of Computer-Based Neurocognitive Assessments in Sport-Related Concussion. *Traumatic Brain Injury Conference*, Washington D.C.
10. L. L. Czerniak, S. W. Liebel, G.-G. P. Garcia, M. S. Lavieri, M. A. McCrea, T. W. McAllister, and S. P. Broglio (2020). Characterizing the Accuracy of Computer-Based Neurocognitive Tests in Sport-Related Concussion. *INFORMS Annual Meeting Minority Issues Forum Poster Competition*, National Harbor, MD

9. G.-G. P. Garcia, J. Yang, M. S. Lavieri, T. W. McAllister, M. A. McCrea, and S. P. Broglio (2019). Optimization of the SAC, BESS, and SCAT Symptom Checklist for Acute Concussion Assessment. *Traumatic Brain Injury Conference*, Washington D.C.
8. G.-G. P. Garcia, M. S. Lavieri, C. M. Schumb, T. W. McAllister, M. A. McCrea, and S. P. Broglio (2018). Developing Insights For Hard-to-Diagnose Concussions Using Machine Learning. *INFORMS Annual Meeting Minority Issues Forum Poster Competition*, Phoenix, AZ
7. G.-G. P. Garcia, M. S. Lavieri, R. Jiang, M. McCrea, T. W. McAllister, S. P. Broglio, and CARE Consortium Investigators (2018). A Stochastic Programming Approach to Determine Decision Boundaries for Medical Diagnosis. *YinzOR Conference 3rd Place*, Carnegie Mellon University, Pittsburgh, PA
6. M. S. Lavieri, X. Liu, G.-G. P. Garcia, Z. Zhou, E. Lobaza, J. Wang, K. Sugiyama, K. Nitta, C. Andrews, M. P. Van Oyen, and J. D. Stein (2017). Using Kalman Filtering to Personalize the Monitoring of Persons with Normal Tension Glaucoma. *The Association for Research in Vision and Ophthalmology*, Baltimore, MD
5. G.-G. P. Garcia, M. S. Lavieri, R. Jiang, M. McCrea, T. W. McAllister, S. P. Broglio, and CARE Consortium Investigators (2017). A Stochastic Programming Approach to Determine Decision Boundaries for Medical Diagnosis. *Center for Healthcare Engineering and Patient Safety Symposium*, University of Michigan, Ann Arbor, MI
4. G.-G. P. Garcia, M. S. Lavieri, R. Jiang, M. McCrea, T. W. McAllister, S. P. Broglio, and CARE Consortium Investigators (2017). A Stochastic Programming Approach to Determine Decision Boundaries for Medical Diagnosis. *Engineering Graduate Symposium 2nd Place*(Session IOF-2), University of Michigan, Ann Arbor, MI
3. G.-G. P. Garcia, M. S. Lavieri, R. Jiang, M. McCrea, T. W. McAllister, S. P. Broglio, and CARE Consortium Investigators (2017). A Stochastic Programming Approach to Determine Decision Boundaries for Medical Diagnosis. *INFORMS Annual Meeting Minority Issues Forum Poster Competition 1st Place*, Houston, TX
2. G.-G. P. Garcia, M. S. Lavieri, and S. P. Broglio (2016). Optimal Return-to-Play From Concussion. *Center for Healthcare Engineering and Patient Safety Symposium*, University of Michigan, Ann Arbor, MI
1. G.-G. P. Garcia, M. S. Lavieri, and S. P. Broglio (2016). Optimal Return-to-Play From Concussion. *Engineering Graduate Symposium*, University of Michigan, Ann Arbor, MI

C. Grants and Contracts

C.1. As Principal Investigator

1. **Designing a Data-driven and Risk-specific Approach to Maternal Health Care**
 Sponsor: I3 Emory SOM/Georgia Tech Innovation Award
 Total Dollar Amount: \$100,000
 Role: PI

Collaborators: Lauren Steimle (PI, Georgia Tech), Sheree Boulet (PI, Emory University School of Medicine), Marissa Platner (co-PI, Emory University)
 Candidate's Share: 35% (\$34,950)
 Period of Contract: January 2022 - December 2022

V. Teaching

A. Courses Taught

Semester, Year	Course Number	Course Title	Class Size	Responses	Overall Effectiveness*
Spring 2022	IsyE 3232	Stochastic Manufacturing and Service Systems	62	57	4.9
Spring 2022	ISyE 8803	Special Topics: Prediction Modeling in Medical Decision Making and Health Policy	15	12	4.8
Winter 2018	IOE 316**	Introduction to Markov Processes	112	100	4.71

*For courses taught at Georgia Tech, overall score reflects interpolated median for the question: Concerning everything, the instructor was an effective teacher. For courses taught at the University of Michigan, the overall score reflects the median for the question: Overall, the instructor was an effective teacher.

**Denotes a course taught at the University of Michigan as the instructor of record.

B. Individual Student Guidance

B.1. Ph.D. Students

B.1.a. In Process Ph.D. Students

3. Kelsey Custodio (co-advised with Juba Ziani)
Advising Start Date: Fall 2021
2. Che-Yi Liao (co-advised with Kamran Paynabar)
Advising Start Date: Fall 2021
1. Sun Ju Lee
Advising Start Date: Fall 2020
Passed OR Comprehensive Exam in: 2021

B.2. Mentorship of Postdoctoral Fellows or Visiting Scholars

2. Caleb X. Bugg
Jerry and Harriet Thuesen Postdoctoral Fellow
Starting August 2022

1. Behshad Lahijanian (co-advised with Nicoleta Serban)
Tennenbaum Postdoctoral Fellow
Starting August 2022

VI. Service

A. Professional Contributions

A.1. Society Officers, Activities, and Membership

- Award Committees:
 1. Member of INFORMS Minority Issues Forum Best Paper Award committee 2021
 2. Member of INFORMS Seth Bonder Scholarship for Applied Operations Research in Health Services committee 2021
- Membership:
 3. INFORMS: Institute for Operations Research and Management Science
 2. SMDM: Society for Medical Decision Making
 1. IISE: Institute of Industrial and Systems Engineering
- Conference Session Chair:
 4. IISE Annual Conference & Expo, 2022
 3. INFORMS Annual Meeting, 2017, 2020
 2. INFORMS Healthcare, 2019, 2021
 1. ISERC, 2016
- Mentoring:
 1. INFORMS Annual Meeting AMAZON SCOT Mentorship Program, 2021

A.2. Technical Journal or Conference Referee Activities

- Technical Journal Referee:
 10. European Journal of Operational Research
 9. Healthcare Management Science
 8. IISE Transactions
 7. INFORMS Journal on Computing
 6. Management Science
 5. Manufacturing & Service Operations Management
 4. Medical Decision Making
 3. Omega - The International Journal of Management Science

- 2. Operations Research
- 1. Production & Operations Management
- Medical and Health Policy Journal Referee:
 - 9. American Journal of Public Health
 - 8. Applied Neuropsychology: Adult
 - 7. BMJ Open Sport & Exercise Medicine
 - 6. BMC Medical Research Methodology
 - 5. International Journal of Sports Medicine
 - 4. JAMA Network Open
 - 3. Journal of Athletic Training
 - 2. Neurosurgery
 - 1. The Clinical Neuropsychologist

A.3. Proposal Panels and Reviews

- National Science Foundation, 2022

B. Public and Community Service

B.1. Broadening Participation in Engineering

- Invited Guest Speaker, “Mentorship for Every Season: Receiving, Giving, and Finding Mentorship throughout Your Career”, BINDx (Black Industrial Engineers), University of Michigan, January 2022
- Student Liaison and Alumni Recruitment Chair, Pitt EXCEL Alumni Council, University of Pittsburgh, 2020-2022
- Keynote Speaker, Pitt EXCEL Homecoming Event, University of Pittsburgh, October 2020