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- Interests** Operations management, analytics for social good, public sector operations, food supply chains
- Academic positions**
- Harvard Business School**, Harvard University, Cambridge, MA
Technology and Operations Management Unit
Assistant Professor July 2022 –
Visiting Postdoctoral Fellow July 2021–July 2022
- Stanford University**, Stanford, CA July 2021 – July 2022
Postdoctoral Fellow, Immigration Policy Lab
- Education**
- Massachusetts Institute of Technology**, Cambridge, MA
PhD in Operations Research September 2016 – May 2021
Advisors: Prof. Retsef Levi and Prof. Georgia Perakis
Thesis: *Healthy Food Access and Consumption: Informing Interventions Through Analytics*
Supported by the NSF Graduate Research Fellowship (2016–2019)
- The Pennsylvania State University, Schreyer Honors College**, University Park, PA
M.A. in Mathematics August 2013 – May 2015
Advisor: Prof. Christopher Griffin
Thesis: *A Reformulation of the CSSR Algorithm and Application to Optimal Deception Strategy in Two Player Games*
B.A. in Mathematics August 2011 – May 2015
B.A. in Statistics August 2011 – May 2015
- Awards/Honors**
- 2nd place, POMS College of Supply Chain Management Best Student Paper Competition 2021
 - Finalist, POMS College of Sustainable Operations Best Student Paper Competition 2021
 - Finalist, IBM Best Student Paper Award 2019
 - NSF Graduate Fellowship 2016 – 2019
 - Gerard L. Bayles Memorial Scholarship 2011–2015
 - Kermit C. Anderson Memorial Award in Mathematics 2014
 - Mary Lister McCammon Award in Mathematics 2013
 - Merit Scholarship, Mathematics Advanced Study Semester 2012
- Papers**
- Working & Under review*
- W1. Outcome-Driven Dynamic Refugee Assignment with Allocation Balancing, with Kirk Bansak. Soon to be submitted.
- W2. Fair group-level intervention bundles, with Retsef Levi and Georgia Perakis. Soon to be submitted.
- W3. Optimal Interventions for Healthy Food Consumption Among Low Income Households. R. Levi, **E. Paulson**, and G. Perakis. Major revision, *Management Science*.
- Finalist, POMS College of Supply Chain Management Best Student Paper Competition (2021)
 - Finalist, IBM Best Student Paper Award (2019)

- Accepted for oral presentation, Workshop on Mechanism Design for Social Good (2020) (acceptance rate 29%)
- W4. Reverse Information Sharing: Reducing Costs in Supply Chains with Yield Uncertainty. A. Jagmohan, P. Harsha, R. Levi, **E. Paulson**, and G. Perakis. R&R, *Management Science*.
 - 2nd place, POMS College of Sustainable Operations Best Student Paper Competition (2021)
- W5. Impact of Access and Value on Fresh Food Consumption: Policy Implications. R. Levi, **E. Paulson**, and G. Perakis. R&R, *Food Policy*.

Published

*The primary author(s) of each paper is bolded.

- P1. Public Health Risks Arising from Food Supply Chains: Challenges and Opportunities. **L. Chen**, **D. Guttieres**, R. Levi, **E. Paulson**, G. Perakis, **N. Renegar**, S. Springs. *Naval Research Logistics*, special issue on OR Models for Developmental Studies, 2021.
- P2. Cooperation Can Emerge in Prisoner's Dilemma from a Multi-Species Predator Prey Replicator Dynamic (2016). **E. Paulson** and C. Griffin. *Mathematical Biosciences*, 178 p.56-62.
- P3. A Game Theoretic Model for Resource Allocation Among Countermeasures with Multiple Attributes (2016). **E. Paulson**, I. Linkov, and J. Keisler. *European Journal of Operations Research*, 252 p.610-622. DOI: 10.1016/j.ejor.2016.01.026.
- P4. Deriving and Optimally Deceptive Policy in Two-Player Iterated Games. **E. Paulson** and C. Griffin. American Control Conference, 2016.
- P5. Optimal Process Control of Symbolic Transfer Functions. **C. Griffin** and E. Paulson. *Feedback Computing*, 2015.
- P6. Better Timing of Cyber Conflict. **E. Paulson** and C. Griffin. Third ASE Conference on Cyber Security, 2014.

Teaching

Massachusetts Institute of Technology, Cambridge, MA

- 15.370 - Data, Models, and Decisions Spring 2020
Teaching assistant for core Executive MBA class.
TA evaluation score: 6.73/7
- 15.S60 - Computing in Optimization and Statistics January 2020
Co-taught a 3-hour session on machine learning in R to PhD students
- 15.S41 - Software Tools for Business Analytics January 2020
Taught a 3-hour session on machine learning in R to MIT undergrads
- 15.734 - Intro to Operations Management Summer 2018
Teaching assistant for core Executive MBA class.
TA evaluation score: 6.26/7
- Microsoft Excel Training Spring 2018, 2019
Co-taught Microsoft Excel training for Executive MBA students (three 3-hour sessions).

- 15.731 - Risk Management

January 2018

Teaching assistant for Executive MBA elective on risk management (two full-day sessions).

TA evaluation score: 7/7

Invited Talks

Short-term Outcomes for Long-term Goals in Dynamic Refugee Matching.

- Stanford Causal Science Conference: November 2021

Healthy Food Consumption: Empirical Analysis and Optimization Models of Government Interventions.

- Penn State College of Medicine: March 2021

Optimizing Group-level Food Policy Interventions.

- Stanford GSB: October 2021
- USC, Marshall Business School: January 2021
- UCLA, Anderson School of Business: January 2021
- Georgia Tech, ISyE: January 2021
- Naval Postgraduate School, OR: January 2021
- Harvard Business School: January 2021
- Columbia Business School: January 2021
- UBC, Sauder School of Business: December 2021
- University of Minnesota, ISyE: December 2020
- Boston College, Carrol School of Management: December 2020
- Wisconsin School of Business, UW Madison: December 2021
- UC Berkeley, Haas School of Business: December 2020
- Dartmouth, Tuck School of Business: November 2020
- MIT, Sloan School of Management: November 2020

Optimal Interventions for Healthy Food Consumption Among Low Income Households.

- Kellogg-Wharton OM Workshop: July 2020
- Health Systems Innovation Seminar Series, MIT Sloan: April 2019

Conference Presentations

Reverse Information Sharing: Reducing Waste and Costs in Supply Chains with Yield Uncertainty.

- POMS: May 2021
- INFORMS Annual Meeting: November 2020

Fair Group-level Intervention Bundles.

- INFORMS Annual Meeting: November 2021
- INFORMS Annual Meeting: November 2020

Optimal Interventions for Healthy Food Consumption Among Low Income Households.

- POMS: May 2021
- Workshop on Mechanism Design for Social Good: August 2020
- INFORMS Annual Meeting: October 2019
- INFORMS Annual Meeting: November 2018

Impact of Access and Value on Fresh Food Consumption: Policy Implications.

- INFORMS Annual Meeting: October 2017
- MSOM: July 2018

Choosing What to Protect, and How: Resource Allocation Among Countermeasures With Multiple Attributes.

- INFORMS Annual Meeting: November 2014

Industry experience	IBM Blockchain Solutions , Yorktown Heights, NY	June 2019 – August 2019
	Research intern	
	Booz Allen Hamilton , Annapolis Junction, MD	July 2015 – June 2016
	Data Scientist	
	Bates White , Washington, D.C.	June 2014-August 2014
	Summer consultant intern	
	U.S. Army Engineer Research and Development Center , Concord, MA	June 2013 – August 2013
	Research intern with the Risk and Decision Science Team	
	Part of the DHS HS-STEM Summer Internship program	