

LEANN THAYAPARAN

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EDUCATION

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Cambridge, MA

Doctor of Philosophy in Operations Research

2019-2024

GPA: 5.0/5.0

Advisor: Georgia Perakis

Research Interests: Machine Learning, Optimization, Revenue Management, Behavioral OM.

Masters of Business Analytics

2018-2019

GPA: 4.9/5.0

Awarded MIT Sloan School of Management Dean's Fellowship for outstanding academic record, personal achievements and professional promise.

PRINCETON UNIVERSITY

Princeton, NJ

Bachelors of Science and Engineering in Operations Research and Financial Engineering

2012-2016

GPA: 3.8/4.0

Graduated with High Honors

Received Certificate in Engineering and Management Systems

Thesis: An Analysis of Television Show Viewership Growth through SIR Models - I used classic epidemiology models to predict the spread of television viewership by applying principles of social contagion.

PUBLICATIONS

SUBMITTED AND WORK IN PROGRESS ¹

1. Perakis, G., Singhvi, D., Skali Lami, O. and Thayaparan, L., 2021, **A Multipeak SIR Based Model: Learning Waves and Optimizing Interventions**, published at *POM*.
Second Place in Service Science Best Student Paper Award 2021 (Institute for Operations Research and the Management Sciences)
Accepted at the Healthcare Operations SIG Meeting 2021.
2. Bennouna, M. A., Nze-Ndong, D., Perakis, G., Singhvi, D., Skali Lami, O., Spantidakis, I., Thayaparan, L., and Tsiourvas, A., 2022, **Machine Learning Ensemble Prevalence Predictions for COVID-19**, accepted in *Manufacturing and Service Operations Management*.
ICSS Best Conference Paper Award 2021 (Institute for Operations Research and the Management Sciences)
Finalist of the Doing Good with Good OR Competition 2021 (Institute for Operations Research and the Management Sciences)
Finalist of the Public Sector Operations Research Best Paper Competition 2021 (Institute for Operations Research and the Management Sciences).
3. Baardman, L., Cristian, R., Perakis, G., Singhvi, D., Skali Lami, O., and Thayaparan, L., 2022, **The Role of Optimization in Recent Advances on Offline Learning**, appeared in *Mathe-*

¹authors are ordered in alphabetical order of last name

matical Programming.

4. Cohen-Hillel, T., Perakis, G., Spantidakis, I., and Thayaparan, L., 2022, **The SAFE Method for Feature Reduction and Prediction**, soon to be submitted to *Journal of Machine Learning*.
5. Perakis, G., and Thayaparan, L., Co-authors from Oracle, 2022, **UMOTEM: Upper Bounding Method for Optimizing over Tree Ensemble Models**, soon to be submitted to *Operations Research*.
6. Perakis, G., and Thayaparan, L., Co-authors from GM, 2022, **Optimizing Electric Vehicle Batteries to Act as Distributed Renewable Energy Storage**, work in progress.
7. Thayaparan, L., 2016, **An Analysis of Television Show Viewership Growth through SIR Models**, Undergraduate Thesis, Princeton University.

TEACHING EXPERIENCE

MIT SLOAN Teaching Assistant for Executive MBAs Data, Models and Decisions, 15.730
Spring 2021, Rating: , Spring 2022, Rating:

PROFESSIONAL EXPERIENCE

MIT SLOAN / ACCENTURE / MORNINGSTAR Cambridge, MA
Team Member, Analytics Project on financial impact of innovation in asset management Fall 2018

- Built innovation scores for 26 asset management firms to capture firm investment in emerging technology based on 8 years of Factiva media data
- Explored correlation between innovation scores and financial growth to understand how innovative culture affects performance; determined no predictive relationship
- Presented analysis to managing directors at Accenture and Morningstar

MCKINSEY COMPANY Boston, MA
Senior Analytics Fellow, Operations Advanced Analytics 2016-2018

- Developed and executed a customer-segmentation marketing personalization strategy using insights from a linear optimization model with an expected \$400K growth in profit; presented results to the client's CMO and VP team
- Refined an algorithm in SQL to predict a customer's next purchase based on their transaction history and presented analysis to educate the client's management team on the power and potential of predictive tools
- Designed and implemented New Hire Training for McKinsey's Operations Advanced Analytics practice

GOLDMAN SACHS New York City, NY
Summer Analyst, Investment Management Division (IMD) Summer 2015

- Developed a data compilation model, pulling information from over 15 different sources, to track the division's Strategic Initiatives, complete with methods for updating and data checks
- Tracked competitor press releases and summarized a comparison of competitors and Goldman Sachs for firm leaders
- Updated IMD's monthly performance models and answered follow up questions surrounding model outputs to help inform directors about the division's overall investment profit and risk

ADDITIONAL INFORMATION

Professional Service: President of the INFORMS student chapter at MIT (Fall 2019 - Present)

Technical Skills: R, Python, SQL, Julia, MATLAB

Interests: Medieval English and Poetry, Bharatha Natyam (classical Indian dance form), Cross-stitch