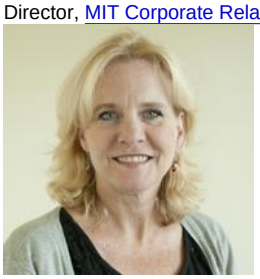
MIT Industrial Liaison Program Faculty Knowledgebase Report

Operationalizing Analytics

November 16, 2020 12:00 pm - 1:30 pm

12:00pm - 12:05pm	Welcome and Introduction Sheri Brodeur Director, MIT Corporate Relations



Sheri Brodeur
Director
MIT Corporate Relations

Sheri Brodeur is a Director of Corporate Relations at MIT. Prior to this, she spent 22 years at Hewlett-Packard Company in several roles. Her most recent position was in the HP Labs Strategy and Innovation Office. The role of this organization is to set HP Labs' research strategy and extend HP's internal research capacity by partnering with universities, governments, and other companies on a global scale to rapidly advance the positive impact of technology on the world.

Sheri spent 15 years with HP Labs, HP's corporate researcher center, managing major university alliances and programs, including a $25M program with MIT. She has been responsible for managing global higher education technology programs in the areas of Security, Digital Libraries (DSpace), Information Management, and Sustainability.

Prior to this role she spent the previous eight years at Hewlett-Packard in the sales organization moving from the position of Field Sales Engineer to Global Account Manager. In this role she was responsible for selling, supporting and delivering high end test and measurement solutions for the communications industry.

Brodeur has a BS in Ceramic Engineering from Alfred University and an MS in Solid State Science from the Materials Research Laboratory at Penn State University.

12:05pm - 12:35pm

Operationalizing Analytics
Dimitris Bertsimas
Boeing Professor of Operations Research
Co-Director, Operations Research Center (ORC)
Faculty Director, Master of Business Analytics, MIT Sloan School of Management

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Dimitris Bertsimas is the Boeing Professor of Operations Research, the codirector of the Operations Research Center, and faculty director of the Master of Business analytics at MIT. His research interests include optimization, machine learning and applied probability and their applications in health care, finance, operations management, and transportation. Bertsimas has coauthored more than 200 scientific papers and four graduate level textbooks. He is the editor in Chief of INFORMS Journal of Optimization. He has supervised 67 doctoral students and is currently supervising 25 others. Bertsimas is a member of the National Academy of Engineering, an INFORMS fellow, and has received numerous prestigious research and teaching awards. He holds an SM in applied mathematics and a PhD in operations research from MIT.

View full bio

We live in an era of unprecedented data, powerful algorithms, and computational capacity. Technology adoption rates are accelerating at an astounding pace. There are tremendous opportunities to be realized by using Analytics which combines the realms of data, modeling, and decisions for business insight and value. Real world problems are usually complex and often ill defined and often companies see the incredible power of this new capability but gaining adoption across the organization is a challenge. We will discuss both the opportunity to ‘operationalize analytics’ and provide solutions to help organizations move toward this new world with better, interpretable methods and organizational training and adoption strategies.

12:35pm - 12:50pm

Interpretable AI
Daisy Zhou
Cofounding Partner, Interpretable AI
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Cofounding Partner
Interpretable AI

Daisy Zhuo is a cofounding partner of Interpretable AI. She has extensive experience developing business solutions using advanced predictive and prescriptive analytics and AI systems in a variety of industries, including healthcare, banking, insurance, and information technology. She holds a PhD in operations research from MIT, during which she developed a range of cutting-edge machine learning techniques such as Optimal Imputation and Robust Classifications, with publications in top academic journals.

Jack Dunn
Cofounding Partner, Interpretable AI

Jack Dunn
Cofounding Partner
Interpretable AI

Jack Dunn is a cofounding partner of Interpretable AI. He has developed many novel analytics approaches, including the Optimal Trees methodology, and has considerable experience applying machine learning and AI to problems in both research and industry settings. Dunn holds a PhD in operations research from MIT.

Current approaches to artificial intelligence such as deep learning are black boxes, which humans cannot understand. In contrast, Interpretable AI builds machine learning solutions that bridge the gap between interpretability and performance, delivering state-of-the-art results while allowing the solutions to be fully understood, audited, and trusted by everyone. The technology is based on cutting-edge research invented and pioneered by the co-founders. The Interpretable AI solutions have been adopted in many leading companies across a wide variety of industries including banking, insurance, manufacturing, and health care.

12:50pm - 1:05pm

Making Analytics Accessible to Leaders

Jordan Levine
Partner, Dynamic Ideas
Senior Lecturer, MIT

The Analytics Edge for Leaders is dedicated to supporting business and organizational leaders become "analytics equipped" leaders. We recognize that mid-career professionals with busy lives do not have the ability to return to a graduate program or spend hours learning to code. Thus, we focus on up-skilling leaders with the must have skills of today and position them to guide and lead analytics efforts. Our programs are designed for general managers, senior executives, consultants, data and technology specialists, functional leaders, individual contributors, and business owners.

1:05pm - 1:30pm

Roundtable Discussion

Sheri Brodeur, Director of Corporate Relations, MIT Corporate Relations

Dimitris Bertsimas, Boeing Professor of Operations Research, MIT

Daisy Zhou, Cofounding Partner, Interpretable AI

Jack Dunn, Cofounding Partner, Interpretable AI

Jordan Levine, Partner, Dynamic Ideas

Jeffrey Bohn
Chief Research & Innovation Officer and Head of Research & Engagement
Swiss Re Institute