LEONARD BOUSSIOUX

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ACADEMIC POSITION

University of Washington, Foster School of Business — *Seattle, WA*
Assistant Professor in Information Systems and Operations Management — *Sep. 2023 – Present*

- Adjunct Assistant Professor in Computer Science, Paul G. Allen School of Computer Science and Engineering
- Affiliated Faculty, Laboratory for Innovation Science at Harvard
- Steering Committee Member at the UW Climate Risk Lab and Member of the AI Task Force at UW Foster, leading school-wide AI strategy and institutional AI upskilling

EDUCATION

Massachusetts Institute of Technology — *Cambridge, MA*
Ph.D. in Operations Research; Advised by Prof. Dimitris Bertsimas; GPA 5.0/5.0 — *2019 – 2023*

- Thesis: *Multimodality: Models, Algorithms, and Applications*

University of California at Berkeley — *Berkeley, CA*
Visiting Scholar at the Sutardja Center for Entrepreneurship and Technology — *Fall 2018*

École Centrale Paris — *Paris, France*
Master of Science in Applied Mathematics; GPA 4.29/4.00; Top 1% — *2017 – 2019*
Bachelor of Engineering; GPA 4.08/4.00; Top 1% — *2016 – 2017*

Louis-le-Grand College — *Paris, France*
Mathematics, Physics, Computer Science Preparatory Classes; GPA 4.0/4.0; Top 5% — *2013 – 2016*

- Intensive undergraduate program preparing for the highly competitive entrance examination to the French Grandes Écoles.

RESEARCH INTERESTS

- *Broad Interests*: Artificial Intelligence, Machine Learning, Optimization, Information Systems
- *Methodological Interests*: Human-AI Collaboration, Big Data, Multimodal and Robust Machine Learning, Generative AI
- *Applications*: AI and the Future of Work, Climate Change Resilience, Analytics for Social Good, Healthcare Operations

PUBLICATIONS

*: co-first author, †: alphabetical

Journal Publications

J1 Lane, J.N.*, **Boussioux, L.***, Ayoubi, C., Chen, Y.H., Lin, C., Spens, R., Wagh, P., Wang, P.H. (2026). The Narrative AI Advantage? A Field Experiment on Generative AI-Augmented Evaluations of Early-Stage Innovations, *Management Science*, Forthcoming.

⋆ *1st Place, Wharton People Analytics White Paper Competition, 2025*
⋆ *Best Complete Paper Nominee / Best in Track Paper, ICIS 2025*

J2 **Boussioux, L.***, Lane, J.*, Zhang, M., Jacimovic, V., Lakhani, K. (2024). The Crowdless Future? Generative AI and Creative Problem Solving, *Organization Science*, 35(5), 1589-1607.

J3 Wasserkrug, S.*, **Boussioux, L.***, Sun, W. (2024). Combining Large Language Models and OR/MS to Make Smarter Decisions, *Tutorials in Operations Research: Smarter Decisions for a Better World*, 1-49.

J4 Bertsimas, D., Carballo, K., **Boussioux, L.**, Li, M., Paskov, A., Paskov, I. (2024). Holistic Deep Learning, *Machine Learning*, 113, 159–183.

J5 **Boussioux, L.***, Zeng, C.*, Guénais, T., Bertsimas, D. (2022). Hurricane Forecasting: A Novel Multimodal Machine Learning Framework, *Weather and Forecasting* 37(6), 817-831. Spotlight talk at *NeurIPS 2021, Tackling Climate Change with AI*.

J6 Soenksen, L.R.*, Ma, Y.*, Zeng, C.*, **Boussioux, L.***, Carballo, K.*, Na, I.*, Wiberg, H., Li, M., Fuentes, I., Bertsimas, D. (2022). Integrated Multimodal Artificial Intelligence Framework for Healthcare Applications, *npj Digital Medicine*, 5 (1), 1-10.

⋆ *1st Place, MIT Cognex Poster Competition, 2022*

J7 **Boussioux, L.***, Ma, Y.*, Thomas, N., Bertsimas, D., et al. (2023). Automated Segmentation of Sacral Chordoma Tumors and Surrounding Muscles Using Deep Learning Ensemble, *International Journal of Radiation Oncology*, 117 (3), 738-749.

J8 Bertsimas, D., **Boussioux, L.**†, Cory-Wright, R., Delarue, A., Digalakis, V., Jacquillat, A., et al. (2020). From Predictions to Prescriptions: A Data-Driven Response to COVID-19, *Health Care Management Science*, 24 (2), 253–272.

⋆ *INFORMS' William Pierskalla Best Paper Award, 2020*

Managerial Articles

M1 **Boussioux, L.**†, Doshi, A., Hauser, O., Hosanagar, K. (2026). The Hidden Cost of AI-Assisted Creativity, *MIT Sloan Management Review*.

M2 Wasserkrug, S., **Boussioux, L.**, den Hertog, D., Greenland, A. (2024). Using Large Language Models to Create Analytics Solutions, *OR/MS Today* (INFORMS).

Preprints and Papers Under Review

P1 **Boussioux, L.***, Jacquillat, A.*, Reger, R., Wachspress, J. (2026). Predictive and Prescriptive Analytics toward Optimizing Wildfire Suppression. Under review at *Operations Research*.

P2 Cunningham, C., Baik, R., **Boussioux, L.**, Nageswaran, L. (2025). Agreeing to Disagree: Human–AI Collaboration in Ethical Decision-Making. Major revision at *Management Science*.

P3 Cunningham, C., Baik, R., Nageswaran, L., **Boussioux, L.** (2026). Decision Making on Draft: Human-AI Collaboration in Supply Chains, *Preprint (SSRN)*.

P4 **Boussioux, L.**, Poulidis, S. (2026). When Anyone Can Build, Who Evaluates? Use-Side Governance in AI Skill Ecosystems, *Preprint (SSRN)*.

P5 **Boussioux, L.***, Zhao, Z.*, Cho, S.* (2026). One Tool, One Taste? Vibe Coding and the Homogenization of the Visual Web, *Preprint (SSRN)*. In preparation for *MIS Quarterly*.

P6 Narad, R., **Boussioux, L.**, Wagner, M. (2026). Beyond Solving: Prescriptive Probing for Neural Combinatorial Optimization, *Preprint*.

P7 Soenksen, L.R.*, Grasby, L.*, Geiger, S.*, Pierce, M.*, Stokes, J., Dao, D.Q., Wenus, L., Badri, O., Groh, M., **Boussioux, L.**, Havele, S., Tamez, M., Mina, M.J. (2026). NollaMD: A Foundational Joint-Embedded Multimodal Reasoning Model for Automated Clinical Interviewing, Differential Diagnosis, and SOAP Note Generation with Robust Medical Vision and Conversational Capabilities. Submitted to *The New England Journal of Medicine*.

P8 Siqueira, A.C.O., Agafonow, A., Perez, M., **Boussioux, L.** (2026). AI for Ethical Governance: Generative and Ontological Approaches to Institutionalizing Mission and Social Responsibility in Enterprises. Submitted to *HICSS*.

P9 Bertsimas, D., **Boussioux, L.**†, Zeng, C. (2022). Reducing Air Pollution through Machine Learning, *Preprint*.

⋆ *2nd Place, INFORMS' Doing Good with Good OR, 2023*

⋆ *Winner, Zetta Prize, Fan Favorite for Best Application of AI in Industry, 2023*

P10 Carballo, K., Ma, Y., Na, I., **Boussioux, L.**, Zeng, C., Soenksen, L., Bertsimas, D. (2025). TabText: a Systematic Approach to Aggregate Knowledge Across Tabular Data Structures. Under review at *The Lancet*.

Peer-reviewed Conference Publications

C1 Bertsimas, D., **Boussioux, L.**† (2026). Ensemble Modeling for Time Series Forecasting: an Adaptive Robust Optimization Approach. *Advances in Neural Information Processing Systems (NeurIPS 2026)*, main conference (poster).

C2 Wasserkrug, S., **Boussioux, L.**, den Hertog, D., Mirzazadeh, F., Birbil, I., Kurtz, J., Maragno, D. (2025). Enhancing Decision Making through the Integration of Large Language Models and Operations Research Optimization. *Proceedings of the AAAI Conference on Artificial Intelligence*, 39(27).

C3 **Boussioux, L.**, Chen, H., Fan, M., Jain, A. (2025). Socratic Iterative Reasoning: Enhancing Large Language Model Decision-Making in the Beer Game Supply Chain, *ICIS 2025 Proceedings*.

C4 Żołna K.*, Saharia, C.*, **Boussioux, L.***, Hui, D.Y., Chevalier-Boisvert, M., Bahdanau, D., Bengio, Y. (2021), Combating False Negatives in Adversarial Imitation Learning, *Proceedings of the AAAI 2020 Conference on Artificial Intelligence*, 34(10), 13999-14000 and *International Joint Conference on Neural Networks (IJCNN)*, 2021, 1-9. Presented at *IJCNN 2021* (spotlight talk), *NeurIPS 2020, Deep Reinforcement Learning Workshop*, and *AAAI 2020*.

C5 Kantor, C., **Boussioux, L.**, Rauby, B., Talbot, H. (2021). Gradient-Based Localization and Spatial Attention for Confidence Measure in Fine-Grained Recognition using Deep Neural Networks, *Proceedings of the AAAI Conference on Artificial Intelligence*, 35(18), 15807-15808.

C6 Kantor, C., **Boussioux, L.**, Rauby, B., Talbot, H. (2021). Over-MAP: Structural Attention Mechanism and Automated

Semantic Segmentation Ensembled for Uncertainty Prediction, *Proceedings of the 33rd Annual Conference on Innovative Applications of Artificial Intelligence*, 35(17), 15316-15322.

Peer-reviewed Conference Workshop Publications

W1 Wang, Y., You, T.G., **Boussioux, L.**, Liu, S. (2025). SOLID: a Framework of Synergizing Optimization and LLMs for Intelligent Decision-Making. Presented at *NeurIPS 2025, Workshop on Machine Learning and Optimization*.

W2 Narad, R., **Boussioux, L.**, Wagner, M. (2025). Mechanistic Interpretability for Neural TSP Solvers. Presented at *NeurIPS 2025, Workshop on Machine Learning and Optimization*.

W3 **Boussioux, L.***, Kantor, C.*, Skreta, M.*, Bunsen, M., Solis, R., Drapeau Picard, A.P., Luccioni, S., Talbot, H., Larrivée, M., Rolnick, D. (2022). Multimodal Artificial Intelligence for Wildlife Analytics. Presented at *CVPR 2022, CV4Animals: Computer Vision for Animal Behavior*.

⋆ *1st Place, INFORMS Poster Competition, 2021*
⋆ *3rd Place, MIT Generator Research Competition, 2021*

W4 Kantor, C., Rauby, B., **Boussioux, L.**, Talbot, H. (2020). Asymptotic Cross-Entropy Weighting and Guided-Loss in Supervised Hierarchical Setting Using Deep Attention Network. Presented at *AAAI 2020, Fall Symposium on AI for Social Good*.

W5 Venuto, D., **Boussioux, L.**, Wang, J., Dali, R., Chakravorty, J., Bengio, Y., Precup, D. (2019). Avoidance Learning Using Observational Reinforcement Learning. Presented at *NeurIPS 2019, Workshop on Safety and Robustness in Decision Making*.

W6 **Boussioux, L.**, Giro-Larraz, T., Guille-Escuret, C., Cherti, M., Kégl, B. (2019). InsectUp: Crowdsourcing Insect Observations to Assess Demographic Shifts and Improve Classification. Presented at *ICML 2019, Workshop on AI for Social Good* and *ICCV 2019, Workshop on Wildlife Conservation*.

GRANTS AND FUNDING

- *Amazon Gift*, *Deciding Where to Act: Ranking Interventions Under Uncertainty for Sustainability and Human-Rights Due Diligence*; $250,000 (staged: $125,000 seed, $125,000 contingent on review) — *2026*
- *SEED-AI*, awarded by AI@UW, $38,000 — *2026*
- *AI Ambassador Grant*, awarded by the Foster School of Business, $2,500 — *2026*
- *Research in Strategic Management Grant*, awarded by the Strategic Research Foundation (SRF), with Prof. Anil Doshi (UCL), $25,000 — *2025*

HONORS AND AWARDS

Research

- 40 Under 40 Award, Puget Sound Business Journal — *2026*
- Best Complete Paper Nominee / Best in Track Paper, ICIS 2025 — *2025*
- 1st Place *Wharton People Analytics White Paper Competition*, for "The Narrative AI Advantage? A Field Experiment on Generative AI-Augmented Evaluations of Early-Stage Innovations" — *2025*
- 2nd Place *INFORMS' Doing Good with Good OR*, awarded for Reducing Air Pollution with Machine Learning — *2023*
- Winner *Zetta Prize, Fan Favorite for Best Application of Artificial Intelligence in Industry* — *2023*
- 1st Place and Audience's Prize *MIT Research Slam*, the Three Minute Thesis Competition — *2022*
- 1st Place *MIT Cognex Poster Competition*, for work on Holistic AI for Medicine — *2022*
- 2nd Place *The $100,000 Audacious Challenge Competition* at *Google X*, for project on ecosystem conservation — *2022*
- 1st Place *INFORMS Poster Competition*, awarded for my poster and work on Holistic AI for Wildlife Analytics — *2021*
- 1st Place *UNESCO and VIVA Tech's AI for the Planet Contest* for overall research on wildlife conservation — *2021*
- 3rd Place *MIT Generator Research Competition* for research on wildlife monitoring — *2021*
- Winner *INFORMS' William Pierskalla Best Paper Award* for research on fighting COVID-19 pandemic — *2020*
- 1st Place *IEEE's Advancing Technology for Humanity Contest* for overall research on wildlife monitoring — *2020*
- 1st Place *La Recherche and Sciences et Avenir's Sustainable Development Contest* for my wildlife monitoring project — *2018*
- 1st Place *Centrale Paris Alumni Society's Engineering for Social Good Contest* for my wildlife monitoring project — *2017*

Teaching

- *Poets&Quants 40 under 40 Best Business School Professors* — *2026*
- *Charles E. Summer Memorial Teaching Award* voted on by graduate students to honor faculty who go above and beyond to engage and challenge students — *2026*
- *Lex N. Gamble Family Award for Excellence in Case Development and Curriculum Innovation*, Foster School of Business, for distinctive work developing teaching cases and innovating curriculum — *2026*
- *Master of Science in Information Systems Faculty Excellence Award* — *2026*
- *PhD Mentor Award*, Foster School of Business — *2025*
- *Dean's Excellence Award for Graduate Teaching* — *2025*
- *Master of Science in Information Systems Faculty Excellence Award* — *2025*
- *Charles E. Summer Memorial Teaching Award* voted on by graduate students to honor faculty who go above and beyond to engage and challenge students — *2024*
- *Master of Science in Information Systems Excellence in Innovation and Teaching Award* — *2024*
- *Goodwin Medal*, MIT's highest teaching award for a student, awarded every year to one graduate instructor "who performed above and beyond the norm, and whose teaching efforts can truly be characterized as conspicuously effective" — *2022*
- *Graduate Student Council Teaching Award – MIT Sloan School of Management*, awarded to one faculty or teaching assistant, for excellence in teaching a graduate-level course — *2022*
- *Outstanding Teaching Assistant*, awarded to one teaching assistant from the MIT Sloan School of Management, for exceptional teaching practices — *2022*

Service and Academic Excellence

- 1st Place *Operations Research Center's Common Experience Deep Learning Challenge* — *2021*
- *INFORMS Student Chapter Annual Award* as a *Cum Laude* for our work as MIT INFORMS officers — *2021*
- *Centrale Paris' Talents Award*, Centrale Paris' highest award, awarded to less than 5 students a year out of 3,000 students to honor a record of outstanding achievements combined with academic excellence — *2018*
- *Official Congratulations from the French Minister of Education*, for placing in the top 100 students at the nationwide French Baccalaureate examination (GPA: 20.18/20.00) — *2013*

SCHOLARSHIPS AND FELLOWSHIPS

- *Robert B. Guenassia Scholarship*, awarded by MIT's Office of Graduate Education to two students a year — *2021*
- *Jean Gaillard Memorial Fellowship*, awarded by the Harvard Committee on scholarships based on academic excellence — *2019*
- *Centrale Paris Alumni Society Scholarship*, in recognition of academic excellence and services to the community — *2017*

TEACHING EXPERIENCE

Course Evaluations

Course	Terms	Enrolled	Rating
University of Washington, Foster School of Business (Instructor)			
MSIS 522 Advanced Machine Learning	W25, W26	95	4.95 / 5.0
MSIS 549 AI & Generative AI for Business Applications	W25, W26	95	4.85 / 5.0
MSIS 547 Generative AI in the Era of Cloud Computing	W24, W25	97	5.00 / 5.0
IS 451 Business Data Analytics	Sp 2024	150	4.90 / 5.0
Massachusetts Institute of Technology (Instructor)			
15.003 Analytics Tools	F21, W22, F22	70+	6.90 / 7.0
15.S60 Computing in Optimization and Statistics	W21, W22	45+	7.00 / 7.0
Massachusetts Institute of Technology (Teaching Assistant)			
15.095 Machine Learning under a Modern Optimization Lens	F 2021	100+	7.00 / 7.0
15.060 Data, Models, and Decisions	F 2020	430+	6.40 / 7.0

Courses Designed and Taught

UW Foster, MSIS 549 AI & Generative AI for Business Applications — *Winter 2025, 2026*

• Designed and launched the program's flagship GenAI core for 95 working professionals across two cohorts, architecting the full learning experience: human-AI collaboration, live vibe-coding and demos, AI tool discovery, and a venture-style capstone judged by industry leaders.
• Covered LLMs, copilots, agentic workflows, RAG, diffusion models, and responsible-AI frameworks.

UW Foster, MSIS 522 Advanced Machine Learning *Winter 2025, 2026*

• Redesigned the MSIS core Advanced ML course; each session blends "AI news of the week," ML fundamentals, discussion, hands-on Colab coding, and case-based learning.
• Covered neural networks, computer vision, transformers, large language models, and multimodality; assessment via two programming homeworks, three quizzes, and a 50% team project with guest-expert panels.

UW Foster, MSIS 547 Generative AI in the Era of Cloud Computing *Winter 2024, 2025*

• Developed this MSIS core course from scratch, including curriculum, lectures, and tutorials.
• Covered generative AI, large language models, deep learning, computer vision, transfer learning, diffusion models, and AI and the future of work and creativity.

UW Foster, IS 451 Business Data Analytics *Spring 2024*

• Undergraduate Information Systems core course across 3 cohorts; covered data wrangling, data mining, machine learning, generative AI, and deep learning.

MIT, 15.003 Analytics Tools *Fall 2021, Win./Fall 2022*

• Master of Business Analytics core course; developed curriculum and taught Python workshops on data wrangling, mining, visualization, machine learning, deep learning, and computer vision, plus explainability, ensemble modeling, autoML, encoder-decoders, transformers, and transfer learning.

MIT, 15.S60 Computing in Optimization and Statistics *Winter 2021, 2022*

• Operations Research Center Master's and Ph.D. core course; developed curriculum and taught Python workshops on machine learning, deep learning, computer vision, neural networks, encoder-decoders, transformers, explainability, and transfer learning.

Teaching Assistant

MIT, 15.095 Machine Learning under a Modern Optimization Lens *Fall 2021*

• Provided Master's and Ph.D. students a unified treatment of machine learning through convex, robust, and mixed-integer optimization; led recitations, created course material and Julia tutorials, and wrote and graded assignments and exams.

MIT, 15.060 Data, Models, and Decisions *Fall 2020*

• MBA core course; introduced fundamental data-driven analytics and management science tools. Prepared and recorded supplementary lectures, built course material and computational tutorials, and wrote and graded assignments and exams.

Guest Lectures

UW Foster: MBA, Executive MBA, MSIS, Lavin Entrepreneurship program, Undergraduate

• *Generative AI and Creative Problem Solving* *Jan.–Mar. 2024*

MIT, 15.076 Analytics for a Better World

• *Fundamentals of Deep Learning* *Apr. 2023*
• *Multimodality: The Next Frontier in Artificial Intelligence* *Apr. 2022, 2023*
• *Hurricane Forecasting: A Novel Multimodal Machine Learning Framework* *Apr. 2021*

MIT, 15.730 Data, Models, and Decisions: Executive MBA core course; individual tutor of 5 students *Spring 2022*

Curriculum Innovation and Teaching Outreach

AI Bootcamps, UW Foster School of Business *Fall 2025*

• Designed and delivered a modular AI bootcamp to every program at Foster (MBA, Executive MBA, specialized master's, and undergraduate), reaching 800+ students across 10+ customized sessions.

Foster Leadership Academy, AI Specialty, UW Foster School of Business *2025 – Present*

• Designed and launched the school's first AI specialty track, curating the program curriculum, events, and assessments for 60+ undergraduates a year.

Demo Days and Agentic Fair, UW Foster School of Business *Winter 2024, 2025, 2026*

• Organized eight Demo Day events in which student teams present AI-driven solutions to 60+ industry judges from Microsoft, Google, Amazon, Meta, Costco, and Accenture, adding an Agentic Fair in 2026 to showcase the agents and tools students built.

Open-Source Teaching Materials, boussioux.com/genai *2023 – Present*

- Created and maintain free online AI and generative-AI course resources, used by 10,000+ learners across 50+ countries.
- Author of *AI with Leo*, an interactive textbook on machine learning, deep learning, and generative AI.
- Curate the Foster AI Gallery, a public showcase of the tools, games, sites, and agents students build and deploy.

Universal AI Initiative, MIT Open Learning *2023 – 2025*

- Co-architected and recorded free online AI courses for the MIT open learning platform (learn.mit.edu), aimed at reaching learners at global scale.

ADVISING AND RESEARCH MENTORSHIP

Human-AI Operations Lab, University of Washington *Founder and Director*

- Research group studying how people and AI collaborate to make better innovation and operations decisions.

Doctoral Students

- **Rebekah Baik**, Information Systems; AI influence and trust in high-stakes human decisions (co-advised with Leela Nageswaran)
- **Caitlin Cunningham**, Information Systems; how AI influences human judgment in ethical decision-making (co-advised with Leela Nageswaran)
- **Sanchita Das**, Operations Management; human–AI decision-making in service systems (co-advised with Masha Shunko)
- **Henry Mao**, Operations Management; robust optimization and time series forecasting
- **Reuben Narad**, Operations Management; deep reinforcement learning and mechanistic interpretability for neural combinatorial optimization (co-advised with Michael Wagner)
- **Ryne Reger**, Operations Research, MIT; optimization and machine learning for operations and decision-making (co-advised with Alexandre Jacquillat)
- **Jingyi Xu**, Generative AI and human–AI collaboration for operations and decision-making (co-advised with Shan Liu)

Doctoral Alumni and Placements

- **Yinsheng Wang**, Ph.D. 2025, Industrial & Systems Engineering; machine learning and operations for healthcare and risk (co-advised with Shan Liu) → *Oracle*

Master's and Research Students

- Erwin Deng (Researcher, MIT; co-advised with Alexandre Jacquillat), Archit Gupta (M.S. Business Analytics), Parham Hajzavar, Sasha Huang (Researcher), Jems Kc (M.S., UTSA; co-advised with Rohit Valecha), Jiwoo Lee, Jimmy Liang, Xinran (Laney) Lu, Ephrem Tilahun

Master's and Research Alumni and Placements

- **Divyam Agrawal** → *Apple*
- **Andrew (Hongyu) Chen**, LLM agents for supply-chain decisions; Socratic iterative reasoning on the Beer Game (co-advised with Ming Fan and Apurva Jain) → *Ph.D. student, University of Florida*
- **Ian Chen**, Human–AI collaboration in innovation and crowdsourcing; Narrative AI field experiments → *NVIDIA*
- **Charles Kantor**, Conservation AI and computer vision for wildlife monitoring (co-advised with Hugues Talbot, CentraleSupélec) → *Stanford University; co-founder of H*
- **Camila Lin**, M.S. Information Systems; built the experimental backbone for the human–AI innovation field experiments (Narrative AI) → *Microsoft*
- **Benjamin Rio** → *Ph.D. student, University of Geneva*
- **Amy (Pei-Hsin) Wang**, Experimental platforms for human–AI evaluation of ideas in the Narrative AI studies → *Accenture*

Earlier Research Mentorship

- Advised 3 graduate students from CentraleSupélec to advance ecosystem conservation. *2020 – 2022*
- Advised 2 MIT Master of Business Analytics students to advance oncology practices with AI. *2020 – 2021*
- Advised 3 graduate students from CentraleSupélec to advance wildlife monitoring. *2019 – 2021*
- Advised 12 students from CentraleSupélec on the Epidemium healthcare challenge on cancer research. *Spring 2017*

INVITED TALKS AND CONFERENCE PRESENTATIONS

Invited Talks and Seminars

The Crowdless Lab? Vibe Coding, Agent Ecosystems, and the Future of Research

- University of Arizona; Remote *Sep. 2026*
- Open & User Innovation Conference (plenary session), Harvard Business School; Boston, MA *Jul. 2026*

Designing Human-AI Collaboration: From Narrative Explanations to Agentic Artifacts
- UW Tacoma, Milgard School of Business; Tacoma, WA — *Jun. 2026*
- Rotman Young Scholar Seminar, University of Toronto; Remote — *May 2026*

Teaching in the Age of Generative AI: From Vibe Coding to AI Champions
- UMass Lowell; Lowell, MA — *Sep. 2026*
- Columbia Business School; New York, NY — *Jun. 2026*
- AI Spark: Foster AI Day (organizer, panel, and workshop); Seattle, WA — *May 2026*
- AI-SCORE Summer School; Chicago, IL — *May 2026*
- Berkeley Global Venture Lab, Sutardja Center, UC Berkeley; Berkeley, CA — *May 2026*

The Creativity Paradox of Generative AI
- MIT Sloan Management Review, Work/26; Cambridge, MA — *May 2026*

Generative AI to Accelerate Problem Solving
- MIT Horizon Live Event; Remote — *May 2026*
- MIT Universal AI; Warsaw, Poland — *Mar. 2026*
- The Age of Agents, Microsoft — *Mar. 2025*

Human-AI Collaboration for a Living Planet
- Stanford University, Sustainable & Responsible Operations AI Conference; Stanford, CA — *May 2026*

Optimizing Wildfire Suppression: A Branch-and-Price-and-Cut & Double-Machine-Learning Approach
- YinzOR at CMU; Pittsburgh, PA — *Aug. 2025*

Generative AI and Evaluation of Early-Stage Innovations
- Institute for Medical Data Science (IMDS) Seminar Series, University of Washington; Remote — *Dec. 2024*
- Microsoft Research; Remote — *Nov. 2024*
- Laboratory for Innovation Science at Harvard; Remote — *Oct. 2024*

From LLMs and Optimization to a Decision Optimization Copilot
- Stanford University Seminar; Palo Alto, CA — *Sep. 2024*

Generative AI and Creative Problem Solving
- Legacy & Leaders, UW Foster School of Business; Seattle, WA — *Oct. 2024*
- Economics of AI Course at Harvard University; Remote — *Sep. 2024*
- Technical University of Munich, GenAI Lab Seminar Series; Remote — *May 2024*
- AI at Wharton; Remote — *Mar. 2024*
- MIT Salon; Boston, MA — *Oct. 2023*

Let Art Be Your Superpower!
- TEDxMIT; Cambridge, MA — *2023*

How to Solve the UN's Sustainable Development Goals in 5 Minutes
- TEDxBoston; Boston, MA — *2023*

Integrated Multimodal Artificial Intelligence Framework for Healthcare Applications
- Keynote for Janssen Pharmaceuticals Conference; Cambridge, MA — *Oct. 2022*

Multimodality, Models, Algorithms, and Applications to Sustainability
- Mila, Québec Institute of Artificial Intelligence; Remote — *Sep. 2023*
- University of Washington, Foster School of Business; Seattle, WA — *Nov. 2022*
- IESE Business School; Barcelona, Spain — *Nov. 2022*
- MIT Operations Management Seminar; Cambridge, MA — *Nov. 2022*
- Young Researchers Workshop at Cornell University; Ithaca, NY — *Oct. 2022*
- Google X, The Moonshot Factory Seminar; Mountain View, CA — *Jun. 2022*
- AI in Climate, a Harvard conference for the Hack AI competition finals; Cambridge, MA — *Mar. 2022*
- Oxman Group; New York, NY — *Mar. 2022*
- MIT ORC Student Seminar Series; Cambridge, MA — *Nov. 2021*

Machine Learning and Operations Research for Climate Action and Wildlife Conservation
- MIT ORC Student Seminar Series; Cambridge, MA — *Apr. 2021*

Combating False Negatives in Adversarial Imitation Learning

- Mila Research Showcase; Montreal, QC *Jun. 2019*

Conference Presentations

Coded Certainty: Authored Ignorance and the Limits of Transparency in Vibe Coding
- DSI Annual Conference; San Francisco, CA *Nov. 2026*

When Anyone Can Build: Curation, AI Fluency, and Use-Side Governance in AI Skill Ecosystems
- DSI Annual Conference; San Francisco, CA *Nov. 2026*

On the Ecology and Taxonomy of Agentic AI Ecosystems
- INFORMS Annual Meeting; San Francisco, CA *Nov. 2026*
- Open & User Innovation Conference, Harvard Business School; Boston, MA *Jul. 2026*

Designing Human-AI Collaboration: From Narrative Explanations to Agentic Artifacts
- SWIS, UW–UBC Information Systems Workshop, UBC Sauder; Vancouver, BC *May 2026*

Optimizing Wildfire Suppression: A Branch-and-Price-and-Cut & Double-Machine-Learning Approach
- INFORMS 2025 Annual Meeting; Atlanta, GA *Oct. 2025*
- INFORMS MSOM 2025 Conference; London, UK *Jun. 2025*
- Workshop on AI & Analytics for Social Good, University of Maryland; College Park, MD *May 2025*

Generative AI and Evaluation of Early-Stage Innovations
- SWIS, UW–UBC Information Systems Workshop, UBC Sauder; Vancouver, BC *May 2026*
- ICIS; Nashville, TN *Dec. 2025*
- CIST 2025; Atlanta, GA *Oct. 2025*
- AI at Wharton, Business & Generative AI Workshop; San Francisco, CA *Sep. 2025*
- AOM; Copenhagen, Denmark *Jul. 2025*
- POMS; Atlanta, GA *May 2025*
- International Conference on Information Systems; Bangkok, Thailand *Dec. 2024*
- INFORMS 2024 Annual Meeting; Seattle, WA *Oct. 2024*
- CIST 2024; Seattle, WA *Oct. 2024*
- AI at Wharton, Business & Generative AI Workshop; San Francisco, CA *Sep. 2024*
- POMS; Minneapolis, MN *Apr. 2024*

From LLMs and Optimization to a Decision Optimization Copilot
- POMS; Atlanta, GA *May 2025*
- INFORMS 2024 Annual Meeting; Seattle, WA *Oct. 2024*
- POMS; Minneapolis, MN *Apr. 2024*

Socratic Iterative Prompt Engineering: LLM Decision-Making in the Beer Game Supply Chain
- POMS; Atlanta, GA *May 2025*

Generative AI and Creative Problem Solving
- AOM; Chicago, IL *Aug. 2024*
- POMS; Minneapolis, MN *Apr. 2024*
- USC AI in Management Conference; Los Angeles, CA *Mar. 2024*

Joining Forces for the Future of Tropical Weather Forecasting
- National Tropical Weather Conference; South Padre Island, TX *Apr. 2024*

The Crowdless Future? How Generative AI Is Shaping the Future of Human Crowdsourcing
- AOM; Chicago, IL *Aug. 2024*
- INFORMS 2023 Annual Meeting; Phoenix, AZ *Oct. 2023*
- AI at Wharton, Business & Generative AI Workshop; San Francisco, CA *Sep. 2023*

Human-AI Collaboration to Accelerate Problem-Solving
- POMS; Minneapolis, MN *Apr. 2024*

Reducing Air Pollution Through Machine Learning
- INFORMS 2023 Annual Meeting, Doing Good with Good OR Finals; Phoenix, AZ *Oct. 2023*

Multimodality, Models, Algorithms, and Applications to Sustainability
- INFORMS 2022 Annual Meeting, The Future of Analytics and Operations Research Workshop; Indianapolis, IN *Oct. 2022*

Adaptive Robust Ensemble Modeling For Time Series Forecasting
- INFORMS 2022 Annual Meeting; Indianapolis, IN *Oct. 2022*

Hurricane Forecasting: A Novel Multimodal Machine Learning Framework
- NeurIPS 2021, Tackling Climate Change with AI workshop (spotlight talk); virtual *Dec. 2021*
- INFORMS 2021 Annual Meeting; virtual *Oct. 2021*
- Montreal AI Symposium; virtual *Sep. 2020*

Holistic Artificial Intelligence for Wildlife Analytics
- INFORMS 2021 Annual Meeting; virtual *Oct. 2021*
- IJCAI 2020 AI for Social Good workshop (spotlight talk); virtual *Jan. 2021*
- AAAI 2020 Fall Symposium on AI for Social Good; virtual *Oct. 2020*

Combating False Negatives in Adversarial Imitation Learning
- International Joint Conference on Neural Networks (spotlight talk); virtual *Jul. 2021*
- Association for the Advancement of Artificial Intelligence (AAAI); New York, NY *Feb. 2020*

InsectUp: Crowdsourcing Insect Observations to Assess Demographic Shifts and Improve Classification
- International Conference on Computer Vision (ICCV), Workshop on Wildlife Conservation; Seoul, Korea *Oct. 2019*
- International Conference on Machine Learning (ICML), Workshop on AI for Social Good; Los Angeles, CA *Jun. 2019*

PROFESSIONAL SERVICE AND REVIEW ACTIVITY

Review Activity

- *Journals*: Management Science, Information Systems Research, Organization Science, Operations Research, Strategic Management Journal, Decision Sciences, Nature Communications, Machine Learning, Transportation Research, Geophysical Research Letters, Remote Sensing of Environment
- *Conferences*: ICML, NeurIPS, POMS, INFORMS MSOM, CIST, AOM

Conference and Community Service

Organizer and Host, AI Spark: Foster AI Day, UW Foster School of Business *2026*

- Founded and led Foster's inaugural school-wide AI Day for 400+ attendees; moderated the "Beyond the Chatbot" panel and ran the Career-Specific AI Skills workshop.

Co-organizer, SWIS 2027, UW–UBC Information Systems Spring Workshop *2027*

Instructor, AI-SCORE Summer School; Chicago, IL *2026*

AI Lunch & Learn: Teaching Claude to Co-Work, University of Washington *Spring 2026*

- Designed and led a hands-on workshop bringing fellow faculty up to speed on agentic AI tools for research and teaching workflows.

Faculty Advisor, MSIS AI & Tech Student Club, UW Foster School of Business *2025 – Present*

Organizer, AI Hackathon, University of Washington *May 2026*

- Organized a cross-campus competition in which students tackle real-world challenges using AI tools.

Session Chair (x6), INFORMS Annual Meeting: two sessions in 2024, one in 2023, three in 2022 *2022 – 2024*

Vice-President INFORMS Officer, Operations Research Center (ORC), MIT *2019 – 2020*

- Organized bi-weekly social events for 90+ people, developed a buddy program for new students, and maintained the connection between the ORC and the INFORMS society. Recognized with the INFORMS 2021 Student Chapter Annual Award as a *Cum Laude*.

Inaugural Student Seminar Coordinator, Operations Research Center, MIT *2019 – 2020*

- Founded and organized a weekly student seminar after identifying the need to showcase ongoing research in informal settings. Weekly attendance of 20–40 students; 40+ different students presented.

Sustainability and Outreach

InsectUp and eButterflAI Research Efforts, *Founder and Machine Learning Advisor* *2017 – 2023*

- Assembled a team of 15+ professors and students across 3 countries and 7 universities and museums to advance ecosystem conservation; mentored 6 students over 3 years.

• Deployed AI technology at Montreal's Insectarium and the eButterfly crowdsourcing platform; developed fine-grained classification and segmentation algorithms identifying 4000+ insect species from crowdsourced photos at 90+% top-3 accuracy.
• Built an Android app, downloaded by 50K+ users, identifying insects from photos. Received 1st prizes from IEEE, UNESCO, INFORMS, La Recherche and Sciences et Avenir, and the Centrale Paris Alumni Society.

Treasurer and Founder of the Ornithological Society of MIT, MIT *2022 – 2023*

• Led efforts to document wildlife in the Boston area and raise awareness about urban biodiversity; organized birdwatching tours and curated two bird photography exhibitions and a photo book at MIT.

PANELS, PODCASTS, AND MEDIA

Panels, Workshops, and Summits

- *Moderator*, AI for Decision Making: Human-AI Collaboration, Governance, and the Future Analytics Workforce, INFORMS Annual Meeting; San Francisco, CA — *Nov. 2026*
- *Panelist*, AI Horizons Webinar Series; Remote — *Sep. 2025*
- *Speaker and Panelist*, Machine Learning for Healthcare, Owkin; Paris, France — *Jul. 2025*
- *Speaker*, AI and the Future of Work, UW Foster Global AI Summit; Seattle, WA — *Mar. 2025*
- *Instructor*, Scholarly Writing for Non-Native English Speakers, UW Ph.D. Students Workshop; Seattle, WA — *Sep. 2024*
- *Panelist*, How AI & Human Ingenuity Can Solve Global Issues, UW Foster Instructional Media; Remote — *Jan. 2024*
- *Panelist*, International Career Panel, UW ABSA × AIESEC; Seattle, WA — *Nov. 2023*

Podcasts and Interviews

- The Pitfalls of Human-AI Interaction, *The New AI Enterprise* — *Apr. 2026*
- What Is the Real Impact of AI on Creativity?, *AI at Wharton* — *2025*
- Why You Don't Have to Specialize Anymore, *AI Ready Podcast* — *2025*
- How to Use Art to Build a Culture of Innovation, *Berkeley Haas, The Culture Kit* — *2024*
- How This Professor Teaches AI and Thinks About the Future of Human Creativity, *GeekWire* — *2024*

Coverage of Research

- Fighting Fire with Foresight, *Foster News* — *Sep. 2026*
- Innovation Rewired: When Imagination Meets AI, *Bain & Company, 2025 Innovation Report* — *Sep. 2025*
- Can AI Come Up With Better Ideas Than People? Sort Of, Science Says, *Entrepreneur* — *Jun. 2025*
- AI in the Driver's Seat? Research Examines Human-AI Decision-Making Dynamics, *Foster Magazine* — *Apr. 2025*
- The Dangers of Deferring to AI: It Seems So Right Even When It's Wrong, *Harvard Business School Working Knowledge* — *Mar. 2025*
- The Creative Edge: How Human-AI Collaboration Is Reshaping Problem-Solving, *Harvard D³ Institute* — *Jan. 2025*
- AI and Innovation: A Question of Quantity vs. Quality, *Knowledge at Wharton* — *Mar. 2024*
- Can AI Create Better Business Ideas Than Humans?, *Big Think* — *Nov. 2023*

Commentary and Expert Interviews

- AI's Growing Role in Wildfire Response, *Axios* — *Sep. 2026*
- "There Is No Playbook for AI in the Workplace Yet", *The New York Times* — *May 2026*
- On Big Tech's AI Pivot and What It Signals for the Future of Work, *CNBC* — *May 2026*
- How AI Is Changing the Way Managers Make Decisions, *Fast Company* — *Dec. 2025*
- The Rise of the AI Gut Check, *Reuters* — *Nov. 2025*

Additional coverage in PrometAI Expert Insights, Human Capital, CEOWORLD Magazine, Foster Magazine, and Foster News.

PRIOR RESEARCH POSITIONS

Massachusetts Institute of Technology, *Doctoral Research Assistant, advised by Prof. Dimitris Bertsimas* *2019 – Jun. 2023*

• Developed and deployed machine learning models for 2 companies (OCP Group, Siegel Auction Galleries), 3 healthcare institutions (Massachusetts General Hospital, Harvard Medical School, MIT Jameel Clinic), and 2 museums (Montreal Insectarium, French National Museum of Natural History).
• Reduced air pollution at OCP's Safi factories in Morocco by 30% with an interpretable predictive-and-prescriptive management pipeline for the world's largest phosphates mining company.

• Contributed to the global COVID-19 response with forecasts provided to the CDC, triage models for hospitals, and policy recommendations to reallocate ventilators.

Google X, The Moonshot Factory, *Artificial Intelligence Ph.D. Resident* *May – Aug. 2022*

• Built a spatial-temporal exploration workflow accelerating ecological data analysis by 10 times, and implemented multimodal species distribution models to investigate generalization across time, space, and species.
• Streamlined the training pipeline and created ensemble models for ecological time series forecasting, improving baselines by 15%.

Mila, Québec Institute of Artificial Intelligence, *Deep Learning Research Intern, advised by Prof. Yoshua Bengio* *Jan. – Jul. 2019*

• Solved the false negatives problem in adversarial imitation learning, improving sample efficiency by 10–100 times; built a beta mobile app to visualize climate change effects and crowdsource natural disaster images.

French National Scientific Research Center (CNRS), Linear Particle Accelerator Laboratory (LAL), *Machine Learning Research Intern, advised by Dr. Balázs Kégl* *Jun. – Aug. 2018*

• Built an app to transcribe handwritten mathematics into LaTeX using deep learning, and adapted the pipeline into a collaborative data-science challenge used for hackathons.

SKILLS AND ACTIVITIES

• **Programming**: Python (TensorFlow, PyTorch, scikit-learn, GenAI APIs), Julia (JuMP, Gurobi, Mosek), Java, R, SQL, OCaml, Javascript, Agentic coding (Codex, Claude Code, Lovable...)
• **Languages**: English, French, Spanish (Fluent), Catalan (Conversational)
• **Activities**: Birdwatching (1170+ species seen), Wildlife and Astrophotography, Digital Art, Soccer, Squash, Hiking