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, 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

EDUCATION

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

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

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.

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.

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

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*

Soenksen, L.*, 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*

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*

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

Preprints

Lane, J.N.*, **Boussioux, L.***, Ayoubi, C., Chen, Y.H., Lin, C., Spens, R., Wagh, P., Wang, P.H. (2024). The Narrative AI Advantage? A Field Experiment on Generative AI-Augmented Evaluations of Early-Stage Innovations, Major Revision at *Management Science*.

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

Narad, R., **Boussioux, L.**, and Wagner, M. (2026). Probing Neural TSP Representations for Prescriptive Decision Support, *Preprint*.

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

Bertsimas, D., **Boussioux, L.**†, Zeng, C. (2022). Reducing Air Pollution through Machine Learning, *Preprint*, In preparation for *Informs Journal of Applied Analytics*

- ⋆ *2nd Place, INFORMS' Doing Good with Good OR, 2023*
- ⋆ *Winner, Zetta Prize, Fan Favorite for Best Application of AI in Industry, 2023*

Bertsimas, D. and **Boussioux, L.**† (2022). Ensemble Modeling for Time Series Forecasting: an Adaptive Robust Optimization Approach, *Preprint*, Reject and Resubmit at *Journal of Machine Learning Research*

Carballo, K., Ma, Y., Na, I., **Boussioux, L.**, Zeng, C., Soenksen, L., Bertsimas, D. (2022). TabText: a Systematic Approach to Aggregate Knowledge Across Tabular Data Structures, *Preprint*, Under review at *The Lancet*

Work in progress

Boussioux, L.*, Jacquillat, A.*, Reger, R., Wachspress, J. Predictive and Prescriptive Analytics toward Optimizing Wildfire Suppression. In preparation for *Operations Research*.

Das, S., **Boussioux, L.**, Shunko, M. Climate-Smart Seasonal Staffing: Forecast-Driven Batch Hiring for Perishable Harvests. In preparation for *Manufacturing & Service Operations Management*.

Boussioux, L.*, Zhao, Z.*, Cho, S.* When Code Writes the Coder: Productivity, Creativity, and the Future of Vibe Coding. In preparation for *MIS Quarterly*.

Boussioux, L., Kc, J., Valecha, R. Automating Urgency Triage in Crisis Mapping: A Multi-Stage Human-AI Collaboration Framework. In preparation for *MIS Quarterly*.

Peer-reviewed Conference Publications

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).

Boussioux, L., Chen, H., Fan, M., Jain, A. (2024). Socratic Iterative Reasoning: Enhancing Large Language Model Decision-Making in the Beer Game Supply Chain, *ICIS 2025 Proceedings*.

Żołna K.*, Saharia, C.*, **Boussioux, L.***, Yu-Tung Hui, D., 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*

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

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

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*

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

Boussioux, L.*, Kantor, C.*, Skreta, M.*, Bunsen, M., Solis, R., Drapeau Picard, AP., 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*

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*

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

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*

HONORS AND AWARDS

Research and Entrepreneurship

- 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*
- *PhD Mentor Award*, Foster School of Business *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 $100k 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*
- *Master of Science in Information Systems Faculty Excellence Award* *2026*
- *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*

GRANTS

• *SEED-AI*, awarded by AI@UW,$38,000 *2026*
• *AI Ambassador Grant*, awarded by 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*

SCHOLARSHIPS AND FELLOWSHIPS

• *Robert B. Guenassia Scholarship*, awarded by the 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*

RESEARCH EXPERIENCE

Massachusetts Institute of Technology *Cambridge, MA*
***Doctoral Research Assistant**, advised by Prof. Dimitris Bertsimas* *2019 – Jun. 2023*
• Developed and deployed machine learning and deep 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).
• Designed unifying multimodality methodology based on feature engineering, data mining, and deep learning to leverage multiple data sources simultaneously, with applications to healthcare, hurricane forecasting, and ecosystem conservation.
• Reduced Safi factories air pollution in Morocco by 30% with a data-driven management pipeline for OCP, the largest phosphates mining company in the world. Implemented interpretable predictive and prescriptive machine learning models.
• Developed framework to train robust ensemble models for time series forecasting with applications to sustainability.
• Contributed to the global effort to mitigate COVID-19 by providing accurate forecasts to the CDC, predictive and prescriptive models to hospitals to triage patients, and policy recommendations to reallocate ventilators.

Google X, The Moonshot Factory *Mountain View, CA*
Artificial Intelligence Ph.D. Resident *May – Aug. 2022*
• *Research Area*: Deep Learning, Time Series Forecasting, Multimodality, Ecological Modeling, Biodiversity Monitoring
• Developed a spatial-temporal exploration workflow accelerating ecological data analysis by 10 times.
• Implemented multimodal species distribution models to investigate generalization across time, space, and species.
• Streamlined training pipeline and created ensemble models for ecological time series forecasting improving baselines by 15%.

Mila, Québec Institute of Artificial Intelligence *Montreal, QC, Canada*
***Deep Learning Research Intern**, advised by Prof. Yoshua Bengio* *Jan. – Jul. 2019*
• *Research Area*: Deep Reinforcement Learning, Imitation Learning, GANs, Grounded Language Learning, AI for Social Good
• Solved the False Negatives problem in adversarial imitation learning and improved sample efficiency by 10-100 times.
• Developed beta version of mobile app to help visualize the effect of climate change and crowdsource natural disasters images.

French National Scientific Research Center (CNRS), Linear Particle Accelerator Laboratory (LAL) *Paris, France*
***Machine Learning Research Intern**, advised by Dr. Balász Kégl* *Jun. – Aug. 2018*
• *Research Area*: Computer Vision, Natural Language Processing, Encoder-Decoders, Collaborative Workflow
• Built app to automatically transcribe handwritten math equations into LaTeX documents using deep learning models.
• Adapted AI pipeline into a collaborative data-science challenge used for hackathons.

TEACHING EXPERIENCE

Instructor

UW Foster, MSIS 549 AI & Generative AI for Business Applications, Instructor *Winter 2025, 2026*
• Designed and launched the program's flagship GenAI core for 95 working professionals in two cohorts; Overall rating 4.85/5.00.
• Architected the entire learning experience: human-AI collaboration, live vibe-coding and demos, venture-style capstone judged by industry leaders, AI tool discovery.
• Covered LLMs, copilots, agentic workflows, RAG, diffusion models, and responsible-AI frameworks.

UW Foster, MSIS 522 Advanced Machine Learning, Instructor *Winter 2025, 2026*
• Redesigned the MSIS core Advanced ML course; 95 students in two cohorts; Overall rating 4.95/5.00
• Each session blends "AI news of the week," fundamentals of ML, discussions, hands-on Colab coding, and case-based learning

- Assessment scaffold: two programming homeworks, three quizzes, and a 50% team project with guest-expert panels.
- Introduced students to neural networks, computer vision, transformers, large language models, multimodality.

UW Foster, MSIS 547 Generative AI in the Era of Cloud Computing, Instructor *Winter 2024, 2025*
- Master of Information Systems core course; 97 students in two cohorts; Overall rating 5.0/5.0
- Developed the whole course from scratch, including curriculum, lectures, tutorials.
- Introduced students to generative AI, large language models, deep learning, computer vision, transfer learning, diffusion models, AI and the Future of Work, AI and the future of creativity.

UW Foster, IS 451 Business Data Analytics, Instructor *Spring 2024*
- Undergraduate Information Systems core course; 150 students in 3 cohorts; Overall rating 4.9/5.0
- Introduced students to data wrangling, data mining, machine learning, generative AI, deep learning.

MIT, 15.003 Analytics Tools, Instructor *Fall 2021, Winter 2022, Fall 2022*
- Master of Business Analytics core course; 70+ students; Overall rating: 6.9/7.0
- Developed curriculum, created and taught Python workshops on data wrangling, data mining, visualization, machine learning, deep learning, and computer vision.
- Introduced students to explainability, ensemble modeling, autoML, encoder-decoders, transformers, transfer learning.

MIT, 15.S60 Computing in Optimization and Statistics, Instructor *Winter 2021, Winter 2022*
- Operations Research Center's Master and Ph.D. core course; 45+ students; Overall rating 7.0/7.0
- Developed curriculum, created and taught Python workshops on machine learning, deep learning, and computer vision.
- Introduced neural networks, encoder-decoders, transformers, explainability, transfer learning.

Teaching Assistant

MIT, 15.095 Machine Learning under a Modern Optimization Lens, Teaching Assistant *Fall 2021*
- Master of Business Analytics and Operations Research Center core course; 100+ students; Overall rating 7.0/7.0
- Provided Master and Ph.D. students with a unified, insightful, and modern treatment of machine learning using the lenses of convex, robust, and mixed-integer optimization. Introduced students to optimization coding in Julia.
- Led recitations, assisted students, created course material, developed Julia tutorials, wrote and graded assignments and exams.

MIT, 15.060 Data, Models, and Decisions, Teaching Assistant *Fall 2020*
- MBA core course; 430+ students; Overall rating: 6.4/7.0
- Introduced MBA students to fundamental data-driven analytics and management science tools, techniques and concepts.
- Prepared and recorded supplementary lectures, created course material and computational tools tutorials, assisted students, 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.-Feb.-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, Apr. 2023*
- *Hurricane Forecasting: A Novel Multimodal Machine Learning Framework* *Apr. 2021*

Mentor and Tutor

MIT, 15.730 Data, Models, and Decisions, Tutor *Spring 2022*
- Executive MBA core course; Individual tutor of 5 students.
- Assisted students in their learning practices, understanding of the concepts, and use of the software tools.

Machine Learning Research, Mentor
- Advised 3 graduate students from CentraleSupélec to advance ecosystem conservation. *2022 - Present*
- 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*

LEADERSHIP, SERVICE, AND OUTREACH

Sustainability and Solidarity

InsectUp and eButterflAI Research Efforts *Paris, France ; Montreal, QC, Canada ; Cambridge, MA*
Founder and Machine Learning Advisor *2017 – 2023*

• Assembled team of 15+ professors and students across 3 countries and 7 universities/museums to advance ecosystem conservation. Mentored 6 students over 3 years.
• Deployed AI technology at Montreal's Insectarium and eButterfly crowdsourcing platform to enhance user-experience.
• Developed fine-grained classification and segmentation algorithms to identify 4000+ insect species on crowdsourced photos, reaching 90+% top 3 accuracy in beta test.
• Built an Android app, downloaded by 50K+ users, identifying insects from photos using these AI models.
• Received 1st prizes from IEEE, UNESCO, INFORMS, La Recherche and Sciences et Avenir, Centrale Paris Alumni Society.

Treasurer and Founder of the Ornithological Society of MIT, MIT *2022 – 2023*
• Led efforts to preserve environment, document wildlife in the Boston area, and raise awareness about urban biodiversity.
• Organized birdwatching tours in the Boston area and gathered the birding community of MIT.
• Curated two personal bird photography exhibitions at MIT and a photo book emphasizing nature's beauty and fragility.

President of Kampuchea Souriya Humanitarian Association, Centrale Paris *2016 – 2017*
• Led a team of 12 students to prepare and conduct a 2-month humanitarian project in Cambodia in partnership with Caritas.
• Raised $30,000 in funding by organizing solidarity races, teaching an undergraduate summer school, getting solidarity grants.
• Created a playground in the only center for disabled children in Cambodia, built novel sustainable food source systems, demonstrated climate-resilient farming practices.

Diversity and Inclusion

Vice-President INFORMS Officer, Operations Research Center (ORC), MIT *2019 – 2020*
• Organized bi-weekly social events and activities for 90+ people, developed a buddy program for new students, organized virtual social activities during the Open House, maintained connection between ORC and INFORMS society.
• Efforts recognized with 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 for ORC students after identifying the need to showcase our ongoing research in more informal settings. Weekly attendance of 20-40 students; 40+ different students presented so far.

Graduate Student Representative on the School Board, CentraleSupélec *2017 – 2018*
• Represented students to define the new mission of the school before the merger between Centrale Paris and Supélec.
• Emphasized the values of humanism, respect, diversity, and social engagement in the new curriculum.

Research Community

Session Chair (x2), INFORMS 2024 Annual Meeting *2024*
Session Chair, INFORMS 2023 Annual Meeting *2023*
Session Chair (x3), INFORMS 2022 Annual Meeting *2022*
• SE70 Machine Learning for Social Good *Oct. 2022*
• MB70 Advancing Machine Learning with Modern Optimization Methods *Oct. 2022*
• TA02 Interpretable Machine Learning via Mixed-Integer and Robust Optimization *Oct. 2022*

Reviewer: Management Science, Information Systems Research, Organization Science, Operations Research, Strategic Management Journal, Decision Sciences, POMS, Nature Communications, ICML, Machine Learning, Transportation Research, Geophysical Research Letters, Remote Sensing of Environment, CIST, AOM

SELECTED TALKS

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

Generative AI and Evaluation of Early-Stage Innovations
• ICIS; Nashville, TN *Dec. 2025*
• AOM; Copenhagen, Denmark *Jul. 2025*
• POMS; Atlanta, GA *May 2025*
• International Conference on Information Systems; Bangkok, Thailand *Dec. 2024*
• Institute for Medical Data Science (IMDS) Seminar Series (University of Washington); Remote *Dec. 2024*
• Microsoft Research; Remote *Nov. 2024*
• INFORMS 2024 Annual Meeting; Seattle, WA *Oct. 2024*
• CIST 2024; Seattle, WA *Oct. 2024*

- Laboratory for Innovation Science at Harvard; Remote *Oct. 2024*
- AI at Wharton – Business & Generative AI Workshop; San Francisco, CA *Sep. 2024*
- POMS; Minneapolis, MA *Apr. 2024*

Multimodality, Models, Algorithms, and Applications to Sustainability
- Mila, Québec Institute of Artificial Intelligence; Remote *Sep. 2023*

Human-AI Collaboration to Accelerate Problem-Solving
- POMS; Minneapolis, MA *Apr. 2024*
- MIT Salon; Boston, MA *Oct. 2023*

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

Generative AI and Creative Problem Solving
- Technical University of Munich, GenAI Lab Seminar Series; Remote *May 2024*
- POMS; Minneapolis, MA *Apr. 2024*
- USC AI in Management Conference; Los Angeles, CA *Mar. 2024*
- AI at Wharton; Remote *Mar. 2024*

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

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
- 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*
- INFORMS 2022 Annual Meeting, The Future of Analytics and Operations Research Workshop; Indianapolis, IN *Oct. 2022*
- Young Researchers Workshop at Cornell University; Ithaca, NY *Oct. 2022*

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

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

Multimodality: the Next Frontier in Artificial Intelligence
- 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*

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*

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

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

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*

InsectUp: Crowdsourcing Insect Observations to Assess Demographic Shifts and Improve Classification

- International Conference on Computer Vision (ICCV), Workshop on Wildlife Conservatio; Seoul, Korea *Oct. 2019*
- International Conference on Machine Learning (ICML), Workshop on AI for Social Good; Los Angeles, CA *Jun. 2019*

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 (1150+ species seen), Wildlife and Astrophotography, Digital Art, Soccer, Squash, Hiking