

# Curriculum Vitae

## YASSINE YAAKOUBI

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**Research Areas:** Probabilistic Machine Learning, Reinforcement Learning, Large-Scale Combinatorial Optimization, Stochastic Programming and Processes, Uncertainty Quantification, Mine Planning, Supply/Value Chains, Transportation Systems, Airline Operations, Climate and Sustainability.

### Education

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2017–2020 **Ph.D. in Mathematics**  
Polytechnique Montréal, Canada  
Thesis Title: "Combining Artificial Intelligence and Mathematical Programming for Airline Crew Scheduling"  
Advisors: François Soumis and Simon Lacoste-Julien  
Note: Fast-tracked from Master's to Ph.D. program  
GPA: 4.0/4.0

2017 **Maîtrise (M.Sc. equivalent) in Applied Mathematics**  
Polytechnique Montréal, Canada and Institut Polytechnique de Grenoble, France  
Advisor: François Soumis  
Note: Fast-tracked to Ph.D. program; dual degree between Institut Polytechnique de Grenoble and Polytechnique Montréal  
GPA: 4.0/4.0

2014–2017 **Engineering Diploma in Information Technology**  
Institut Polytechnique de Grenoble, France  
Joint degree between Phelma (École Nationale Supérieure de Physique, Électronique et Matériaux) and Ensimag (École Nationale Supérieure d'Informatique et de Mathématiques Appliquées)  
Triple Major: Discrete Optimization and Operations Research, Networks, IT Security; Double Minor  
Graduated with highest honors ("mention très bien")

### Professional Appointments

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2024–present **Tenure-Track Assistant Professor**  
Concordia University, Montréal, Canada  
Department of Mechanical, Industrial & Aerospace Engineering (MIAE), Gina Cody School of Engineering and Computer Science

2025–present **Adjunct Professor**  
McGill University, Montréal, Canada  
Faculty of Engineering

2022–2024 **Postdoctoral Fellow**  
McGill University, Montréal, Canada  
COSMO (Stochastic Mine Planning Laboratory)  
Supervisors: Roussos Dimitrakopoulos, Erick Delage, Yossiri Adulyasak, Emma Frejinger  
Project: Integrated Machine Learning and Optimization for Decision Making under Uncertainty

2023–2024 **Team Lead – Grand Challenge Initiatives in AI for Climate & Nature**  
Climate Change AI and Bezos Earth Fund, USA

- Led a landscape assessment of the AI for Climate Grand Challenge to identify pitfalls and make recommendations  
Collaborated with David Rolnick, Priya L. Donti, Lynn Kaack; resulted in a \$100M Grand Challenge
- 2022–2023      **Program Manager**  
Canadian Institute for Advanced Research (CIFAR)  
Led a landscape assessment, symposium, and strategic initiative on AI for Energy and the Environment (AI4E&E)
- 2020–2022      **Postdoctoral Fellow**  
McGill University, Montréal, Canada  
COSMO (Stochastic Mine Planning Laboratory)  
Supervisor: Roussos Dimitrakopoulos  
Developed self-learning meta- and hyper-heuristics for stochastic optimization of mining complexes  
Spearheaded the development of COSMO Suite software  
Assisted in NSERC grant proposals; supervised MSc and PhD students  
Served as CIFAR’s official reporter for the Pan-Canadian AI Strategy
- 2017–2019      **Research Assistant**  
Polytechnique Montréal, Montréal, Canada  
GERAD; Mila (Quebec Artificial Intelligence Institute)  
Integrated machine learning and combinatorial optimization for airline crew scheduling  
Developed ML-augmented warm-starting and adaptive clustering techniques
- 2015–2016      **Research Engineer**  
Institut Polytechnique de Grenoble, Grenoble, France  
G-SCOP Laboratory  
Supervisor: Gauttier Stauffer  
Applied stochastic traveling salesman problem to golfing strategy optimization  
Developed a Q-learning-based reinforcement learning algorithm
- 2015              **Intern**  
General Motors, Strasbourg, France  
Optimized automatic transmissions production line and managed supply chain operations  
Achieved production goal of 3,000 units within the specified timeline
- 2014–2015      **Research Engineer**  
Institut Polytechnique de Grenoble, Grenoble, France  
GIPSA-lab (Grenoble Images Speech Signal and Control)  
Supervisor: Franck Quaine  
Engineered a myoelectric interface for real-time EMG signal analysis and classification  
Demonstrated control of a physical pilot arm via a 3D virtual arm

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## Research Funding History

### Awarded and/or Completed

- [F1]      **Google Academic Research Programme**  
Principal Investigator. 2024/12–2026/1. \$85,000 USD.  
Funding Source: Google Research (Compute Credits Programme). Funding Competitive?: Yes.  
Co-investigators: Amal Rannen-Triki
- [F2]      **Strengthening African Machine Learning and Artificial Intelligence through Deep Learning Indaba**  
Co-investigator. 2024/7–2028/6. \$400,000 CAD.  
Funding Sources: International Development Research Centre (IDRC), AI4D.  
Portion of Funding Received: \$100,000 CAD. Funding Competitive?: Yes.  
Co-investigators: Emily Muller, Shakir Mohamed.
- [F3]      **Faculty Research Start-up Funds**  
Principal Investigator. 2024/8–2026/8. \$75,000 CAD.  
Funding Source: Concordia University.

- [F4] **Deep Learning Indaba Grant**  
Principal Investigator. 2024/5–2025/4. \$138,000 USD.  
Funding Source: Bill and Melinda Gates Foundation. Funding Competitive?: Yes.  
Co-investigator: Shakir Mohamed.
- [F5] **Deep Learning Indaba Grant**  
Principal Applicant. 2024/8–2025/7. \$34,500 USD.  
Funding Source: Schmidt Sciences. Funding Competitive?: Yes.
- [F6] **IVADO Scientist in Residence Program - Intelligent CapEx Optimization for Sustainable Mining**  
Collaborator. 2024/8–2025/2. Total Funding: \$10,000 CAD (Scale AI: \$5,000 CAD; IVADO: \$5,000 CAD).  
Portion of Funding Received: \$0 CAD. Funding Competitive?: Yes.  
Co-applicants: Abdallah Jarray, Luiz Silva, Renaud Sénéchal.  
Principal Applicant: Matheus Faria.
- [F7] **Integrated Machine Learning and Optimization for Decision Making under Uncertainty**  
Co-investigator. 2022/9–2024/8. \$70,000 CAD.  
Funding Source: IVADO Strategic Research Funding Program. Funding Competitive?: Yes.  
Principal Investigator: Roussos Dimitrakopoulos.
- [F8] **Doctoral Scholarship**  
Principal Applicant. 2017/9–2020/2. \$60,000 CAD.  
Funding Source: École Polytechnique de Montréal. Funding Competitive?: No.

## Under Review

- [UR1] **An End-to-End Pathway to an AI-Driven Climate-Resilient Africa**  
Co-investigator. 2025/6–2028/5. \$600,000 CAD.  
Funding Source: International Development Research Centre (IDRC), AI4D. Funding Competitive?: Yes.  
Portion of Funding Received: \$100,000 CAD.  
Co-investigators: Amal Nammouchi, Brian Halubanza, John Bagiliko, Rendani Mbuva, Sabrina Amrouche, Santiago Hincapié Potes.
- [UR2] **Gina Cody Research and Innovation Fellowship**  
Principal Investigator. 2025/9–2027/8. \$40,000 CAD.  
Funding Source: Concordia University. Funding Competitive?: Yes.
- [UR3] **Google Research Scholar Program Grant**  
Co-applicant. 2025/6–2026/5. \$85,000 CAD.  
Funding Source: Google, Algorithms and Optimization. Funding Competitive?: Yes.

## Selected Awards and Distinctions

- [A1] **Maathai Impact Award**  
2024/9. Deep Learning Indaba. Prize/Award.  
Recognizes the work of African innovators demonstrating impactful applications of AI/ML that positively transform African societies and communities, honoring the legacy of Wangari Maathai, the first African woman to receive the Nobel Peace Prize, for environmental sustainability and social empowerment.
- [A2] **INFORMS Annual Meeting Travel Award**  
2022/9–2022/11. INFORMS. \$1,500. Prize/Award.  
Related to my role as editor of OR/MS Tomorrow.
- [A3] **Deep Learning Indaba Travel Award**  
2022/9–2024/9. \$4,000. Prize/Award.
- [A4] **IVADO Postdoctoral Research Fellowship**  
2022/9–2024/8. \$70,000 CAD. Honor.  
Under the IVADO Strategic Research Funding Program.

- [A5] **International Conference on Machine Learning Student Volunteer Award**  
2021/6–2021/8. Honor.
- [A6] **COSMO Consortium Fellowship**  
2020/9–2024/9. \$200,000 CAD. Prize/Award.
- [A7] **École Polytechnique de Montréal Doctoral Fellowship Award**  
2018/1–2020/2. \$50,000 CAD. Prize/Award.
- [A8] **Institut polytechnique de Grenoble Highest Distinctions**  
2018/1. Distinction.  
Graduated with highest honors from Grenoble Institute of Technology.
- [A9] **Explo'RA Sup Exchange Student Mobility Scholarship**  
2018/1–2018/12. \$5,000 CAD. Prize/Award.  
Mobility grant for joint dual diploma between Grenoble Institute of Technology and Polytechnique Montréal.
- [A10] **Polytechnique Montréal Master's Scholarship Award**  
2017. \$10,000 CAD. Prize/Award.
- [A11] **Fondation Grenoble INP Excellence Scholarship**  
2016. \$2,500 CAD. Prize/Award.
- [A12] **Phelma – Grenoble INP Research Award**  
2015. \$1,000 CAD. Prize/Award.

## Pre-prints

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- [P1] **Yaakoubi, Y.**, Donti, P. L., Kaack, L. H., Rolnick, D., Dunietz, J., Malik, M., Afolabi, T., Kuhne, P., Ndzimande, O., Chinyamakobvu, M., Gombakomba, R., Chibvongodze, V., Leslie, T., Bjärby, E., Letuka, T. (2024). *Grand Challenge Initiatives in AI for Climate & Nature: Landscape Assessment and Recommendations*. Climate Change AI (CCAI). **Pre-print**.
- [P2] Mbuva, R., **Yaakoubi, Y.**, Bagiliko, J., Hincapie Potes, S., Nammouchi, A., Amrouche, S. (2024). *Leveraging AI for Climate Resilience in Africa: Challenges, Opportunities, and the Need for Collaboration*. *arXiv preprint arXiv:2407.05210*.
- [P5] **Yaakoubi, Y.**, Soumis, F., Lacoste-Julien, S. (Under Review). Flight-Connection Prediction for Airline Crew Scheduling to Construct Initial Clusters for OR Optimizer. *Transactions on Machine Learning Research*.
- [P6] **Yaakoubi, Y.**, Dimitrakopoulos, R. (Under Review). Distributionally Robust Warm-Starting for Mineral Supply/Value Chains. *INFORMS Journal on Computing*.
- [P7] Del Castillo, F., **Yaakoubi, Y.**, Dimitrakopoulos, R. (Under Review). Stochastic Optimization of Mining Complexes Integrating Capital Investments and Operational Alternatives. *Annals of Operations Research*.
- [P8] Pereira, P., Courtade, E., Aloise, D., Quesnel, F., Soumis, F., **Yaakoubi, Y.** (Under Review). Learning to Branch for the Crew Pairing Problem. *Transportation Research Part E*.

## Journal Publications

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- [P3] **Yaakoubi, Y.** (2024). Graph-Based Learning for Modeling Delay Propagation in Airline Networks. *Proceedings of the Triennial Symposium on Transportation Analysis conference*.
- [J1] **Yaakoubi, Y.**, & Dimitrakopoulos, R. (2024). Decision-focused neural adaptive search and diving for optimizing mining complexes. *European Journal of Operational Research*.
- [J2] **Yaakoubi, Y.**, & Dimitrakopoulos, R. (2023). Learning to schedule heuristics for the simultaneous stochastic optimization of mining complexes. *Computers & Operations Research*, 159, 106349.

- [J3] **Yaakoubi, Y.**, & Dimitrakopoulos, R. (2022). A data-driven approach for the simultaneous stochastic optimization of mining complexes. *IFAC-PapersOnLine*, 55(21), 67–72.
- [J4] Tahir, A., Quesnel, F., Desaulniers, G., El Hallaoui, I., & **Yaakoubi, Y.** (2021). An improved integral column generation algorithm using machine learning for aircrew pairing. *Transportation Science*, 55(6), 1411–1429.
- [J5] **Yaakoubi, Y.**, Soumis, F., & Lacoste-Julien, S. (2021). Structured convolutional kernel networks for airline crew scheduling. *International Conference on Machine Learning*. PMLR, 139, 11626–11636.
- [J6] **Yaakoubi, Y.**, Soumis, F., & Lacoste-Julien, S. (2020). Machine learning in airline crew pairing to construct initial clusters for dynamic constraint aggregation. *EURO Journal on Transportation and Logistics*, 9(4), 100020.
- [J7] Soumis, F., **Yaakoubi, Y.**, & Lacoste-Julien, S. (2019). Machine learning → mathematical programming for air crew scheduling. *Proceedings of the Triennial Symposium on Transportation Analysis*.

## Conferences, Refereed Workshops & Talks

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- [P4] **Yaakoubi, Y.** (2025). Machine Learning and Optimization for Decarbonizing High-Emitting Industries. *AI+ORMS 2025 at the AAAI Conference on Artificial Intelligence*.
- [C1] **Yaakoubi, Y.**, Soubra, R., Atallah, G., Bedrossian, S., Farhat, L., Issa, J., Manchanda, R., Rahman, N. (2025). Mathematical programming and data analytics toward sustainable mine planning. *CIM Connect 2025*.
- [C2] **Yaakoubi, Y.**, & Dimitrakopoulos, R. (2025). Machine learning for robust warm-starting in mining complex optimization under uncertainty. *CIM Connect 2025*.
- [C3] **Yaakoubi, Y.** (2024). Application-driven machine learning and optimization for decarbonizing high-emitting industries. *Mila Sustainability Reading Group*.
- [C4] **Yaakoubi, Y.**, & Dimitrakopoulos, R. (2024). Machine learning for distributionally robust warm-starting in mineral supply/value chains. *International Symposium on Mathematical Programming*.
- [C5] **Yaakoubi, Y.**, & Dimitrakopoulos, R. (2024). Distributionally robust warm-starting for mineral supply/value chains. *Optimization Days*.
- [C6] Ezzine, L. N., Bengio, Y., Atanane, A., Boukachab, G., Boussif, O., Mahfoud, M., **Yaakoubi, Y.**, Benabou, L., Boussioux, L., Mitra, P., Jacquillat, A., Den Hertog, D., Bennis, M., El Housni, O., et al. (2023). Leveraging AI for Natural Disaster Management: Takeaways From The Moroccan Earthquake. *NeurIPS 2023 Workshop on Artificial Intelligence for Humanitarian Assistance and Disaster Response*.
- [C7] **Yaakoubi, Y.** (2023). Optimization and Learning for Mineral Value Chains. Industrial presentation. *Imperial Oil (ExxonMobil)*.
- [C8] **Yaakoubi, Y.**, & Dimitrakopoulos, R. (2023). Integrated machine learning and optimization for the simultaneous stochastic optimization of mining complexes. *INFORMS Annual Meeting*.
- [C9] **Yaakoubi, Y.**, & Dimitrakopoulos, R. (2023). Diverse candidate generation for a sustainability-aware stochastic optimization of mining complexes. *COSMO Technical Day*.
- [C10] **Yaakoubi, Y.**, & Dimitrakopoulos, R. (2023). Context-aware neural branching & diving strategies for optimizing industrial mining complexes. *CORS / Optimization Days*.
- [C11] **Yaakoubi, Y.**, de Carvalho, J. P., & Cutler, J. (2023). Context-aware smart solvers for optimizing supply/value chains. *GERAD-IVADO Contextual Optimization Workshop*.
- [C12] **Yaakoubi, Y.**, Radi, H., & Dimitrakopoulos, R. (2022). Learning on graphs for mineral asset valuation under supply and demand uncertainty. *NeurIPS-22 Workshop on Graph Learning for Industrial Applications: Finance, Crime Detection, Medicine and Social Media*.
- [C13] **Yaakoubi, Y.**, & Dimitrakopoulos, R. (2022). Learning to schedule heuristics for the simultaneous stochastic optimization of mining complexes. In W27: Machine Learning for Operations Research (ML4OR), *AAAI Conference on Artificial Intelligence (AAAI-22)*, 1-8, AI Access Foundation.

- [C14] **Yaakoubi, Y., & Dimitrakopoulos, R. (2022).** Rethinking optimizers and continual learning: A study on combining AI and OR for optimizing mining complexes under uncertainty. *COSMO Technical Day*.
- [C15] **Yaakoubi, Y., & Dimitrakopoulos, R. (2022).** Self-learning hyper-heuristics for the optimization of industrial mining complexes. *JOPT (Optimization Days)*.
- [C16] **Yaakoubi, Y., & Dimitrakopoulos, R. (2021).** A self-learning hyper-heuristic method for strategic mine planning. *INFORMS Annual Meeting*.
- [C17] **Yaakoubi, Y., & Dimitrakopoulos, R. (2021).** A self-learning tree-based approach to the simultaneous stochastic optimization of mining complexes. *COSMO Technical Day*.
- [C18] **Yaakoubi, Y., & Dimitrakopoulos, R. (2021).** Learn on to perturb: A deep reinforcement learning approach to adaptive simulated annealing for optimizing industrial mining complexes. *European Conference on Operational Research (EURO)*.
- [C19] **Yaakoubi, Y., & Dimitrakopoulos, R. (2021).** A self-learning hyper-heuristic method for strategic mine planning. *Conference of the International Federation of Operational Research Societies (IFORS)*.
- [C20] **Yaakoubi, Y., & Dimitrakopoulos, R. (2020).** Learn to perturb: A deep reinforcement learning approach to adaptive simulated annealing for optimizing industrial mining complexes. *COSMO Technical Day*.
- [C21] **Yaakoubi, Y., Soumis, F., & Lacoste-Julien, S. (2019).** Machine learning in airline crew pairing to construct initial clusters for dynamic constraint aggregation. *JOPT (Optimization Days)*.
- [C22] **Yaakoubi, Y., Lacoste-Julien, S., & Soumis, F. (2019).** Structured convolutional kernel networks for airline crew scheduling. *Montreal AI Symposium*.
- [C23] **Yaakoubi, Y., Soumis, F., & Lacoste-Julien, S. (2018).** Accelerating the optimization of aircrew rotations with machine learning. *JOPT (Optimization Days)*.

## Teaching Experience

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- 2024–present **Tenure-Track Assistant Professor, Concordia University, Gina Cody School of Engineering**  
 INDU 6990 Industrial Engineering Capstone.  
 INDU 6161 – Design & Operations of Supply Chain Networks.  
 INDU 498 – Data Analytics for Industrial Engineers.
- 2022–2024 **Instructor, McGill University, Faculty of Engineering**  
 MIME 522 – Discrete Optimization and Mineral Resources: Lecturing, project supervision.  
 MIME 631 – Advanced Stochastic Optimization in Mine Planning: Lecturing, grading.  
 MIME 513 – Mine Planning Optimization Under Uncertainty: Lecturing, grading.

## Academic Service and Leadership

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- 2024–present **Deep Learning Indaba**  
 Steering Committee Member and Sponsorship Chair.  
 Deep Learning Indaba is an educational charity, whose mission is to strengthen African AI.  
 Annually: 200+ travel grants, 400+ accommodation scholarships, and 20+ innovation grants.  
 Raised \$1.5 million CAD to strengthen machine learning and artificial intelligence.
- 2022–2023 **Deep Learning Indaba**  
 Sponsorship committee member.  
 Raising annually 600,000+ USD to strengthen machine learning in Africa.  
 Spearheading the Indaba initiatives on Optimization and Mining.
- 2022–present **EDI Committee of GERAD**  
 Comprehensive survey, data analysis, and strategic recommendations.
- 2021–present **INFORMS OR/MS Today & INFORMS OR/MS Tomorrow**  
 Editorial staff writer and board member.
- 2022 **AAAI (Association for the Advancement of Artificial Intelligence) Conference**

	Help desk and session co-chair: Provided technical support and chaired conference sessions.
2021	<b>ICML (International Conference on Machine Learning)</b> Help desk and session co-chair: Provided technical support and chaired conference sessions.
2021	<b>Summer Undergraduate Research in Engineering, Poster Competition at McGill University</b> Student presentations and posters evaluation and follow-up mentorship.
2018–2019	<b>JOPT (Optimization Days)</b> Session organizer: Coordinated and chaired conference sessions.
2017–2019	<b>DeepAlpha Startup (Reinforcement Learning for Portfolio Optimization)</b> Provided technical assistance and guidance for portfolio optimization solutions.

### Graduate Thesis Committees (not including own graduate students)

2024	<b>Sara Mohammadi</b> PhD Thesis Committee Member Institution: Concordia University Thesis Title: "Sustainability and Mathematical Programming-based Supply Chain in Wood Industry"
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## Advisory Experience

### Mentor / Advising Graduate Students and Postdocs

#### Doctoral Students

2025–present	<b>Xiang Chen Zhu</b> (Concordia University, Supervisor)
2025–present	<b>Javier Gomez</b> (Concordia University, Supervisor)
2025–present	<b>Chelvy Moe-Mackosso</b> (Concordia University, Supervisor)
2025–present	<b>Mahmoud Khaled Abdelkader</b> (Concordia University, Supervisor)
2019–2020	<b>Adil Tahir</b> (Polytechnique Montréal, co-supervisor) Present Position: Assistant Professor, Mohammedia Faculty of Science and Technology.
2019–2020	<b>Fernanda Del Castillo</b> (McGill University, co-supervisor) Present Position: Director of AI Governance, Mastercard.

#### Master's Students

2025–present	<b>Benie Matoka Mabondo</b> (M.A.Sc., Concordia University, Supervisor)
2025–present	<b>Ryan Naccache</b> (M.A.Sc., Concordia University, Supervisor)
2025–present	<b>Aynaz Javanivayeghan</b> (MCompSc, Concordia University, Supervisor)
2022–2023	<b>Cristina Tessa Penadillo Palomino</b> (M.Eng., McGill University, co-supervisor) Present Position: Mining Engineer, Newmont.
2022	<b>Hager Radi</b> (M.Sc., University of Alberta, co-supervisor) Present Position: Applied Research Scientist, Mila.
2021	<b>Philippe Decoste</b> (M.Eng., McGill University, co-supervisor) Present Position: Master's Student, McGill University.
2021–2022	<b>Pierre Pereira</b> (M.Sc., Polytechnique Montréal, co-supervisor) Present Position: R&D Engineer, JoliBrain.
2021–2022	<b>Emeric Courtade</b> (M.Sc., Polytechnique Montréal, co-supervisor) Present Position: Data Scientist, CMA CGM.
2017–2018	<b>Philippe Racette</b> (M.Sc., Polytechnique Montréal, co-supervisor) Present Position: Ph.D. Student, Polytechnique Montréal.

### Advisor / Graduate Students

2024–2025	<b>Sadjad Siadat</b> (M.A.Sc./M.Eng., Concordia University, mentor)
2024–2025	<b>Muneeb Ahmad</b> (M.A.Sc./M.Eng., Concordia University, mentor)
2024–2025	<b>Mohammad Saad</b> (M.A.Sc./M.Eng., Concordia University, mentor)
2024–2025	<b>John Sam Daniel</b> (M.A.Sc./M.Eng., Concordia University, mentor)

2024–2025	<b>Manan Rajendra Patel</b> (M.A.Sc./M.Eng., Concordia University, mentor)
2024–2025	<b>Abhinav Deshwar</b> (M.A.Sc./M.Eng., Concordia University, mentor)
2024–2025	<b>Aditya Thakkar</b> (M.A.Sc./M.Eng., Concordia University, mentor)
2024–2025	<b>Divyanshu Jaggi</b> (M.A.Sc./M.Eng., Concordia University, mentor)
2024–2025	<b>Om Raval</b> (M.A.Sc./M.Eng., Concordia University, mentor)
2024–2025	<b>Yash Patel</b> (M.A.Sc./M.Eng., Concordia University, mentor)
2024–2025	<b>Param Patel</b> (M.A.Sc./M.Eng., Concordia University, mentor)

#### Advisor / Undergraduate Students

2024–2025	<b>Georges Atallah</b> (B.Eng., Concordia University, mentor)
2024–2025	<b>Stephanie Bedrossian</b> (B.Eng., Concordia University, mentor)
2024–2025	<b>Louwy Farhat</b> (B.Eng., Concordia University, mentor)
2024–2025	<b>Jad Issa</b> (B.Eng., Concordia University, mentor)
2024–2025	<b>Prithish Manchanda</b> (B.Eng., Concordia University, mentor)
2024–2025	<b>Nadia Rahman</b> (B.Eng., Concordia University, mentor)
2024–2025	<b>Logan Labossiere</b> (B.Sc., McGill University, advisor)

#### Reviewing Experience

- **Journals:** INFORMS Journal on Computing (3), Resources Policy (3), Transportation science (1), Computers & Geosciences (1), International Journal of Mining Science, Technology (1) and Deep Learning Indaba.
- **Conferences:** ICML (International Conference on Machine Learning) (3), AISTATS (International Conference on Artificial Intelligence and Statistics) (3), International Conference on Computer Science and Application Engineering (3), IFAC (International Federation of Automatic Control Symposium on Control), Optimization and Automation in Mining, Mineral, Metal Processing (1) and JOPT (Optimization Days).
- **Workshops:** Montreal AI Symposium (MAIS) (7).

#### Certifications & Skills

- **Temporary Restrictive Permit** holder, granted by the **Order of Engineers of Quebec** under the mutual recognition arrangement between France and Quebec. Authorized to work under supervision as “ing. PRT”. Successfully completed the professional exam on October 21, 2023. Member number: 6063606
- Programming languages: Python, C/C++, C#, Java, R
- Software libraries: JAX, Pytorch, Tensorflow, Keras, Scikit-learn, Theano, Weka
- Languages: English (C2), French (C2), Arabic (C2), and German (B2)

#### Media Coverage

- [M1] **Thinking Ahead: As the Use of Artificial Intelligence and Machine Learning in Mining is Becoming More Commonplace, Research is Underway to Automate Every Part of a Mining Operation.** *CIM Magazine*, February 4, 2022.
- [M2] **Africa’s AI Researchers are Ready for Takeoff**, by Melissa Heikkilä. *MIT Technology Review*, November 12, 2024.
- [M3] **What Africa Needs to Do to Become a Major AI Player**, by Abdullahi Tsanni. *MIT Technology Review*, November 11, 2024..

#### Intellectual Property

##### Intellectual Property Patent & License Inventor

**Simultaneous Stochastic Optimization of Mining Complexes for Strategic Planning** The first stochastic mine planning software in the market, developed in collaboration with (and commercialized to) a consortium of mining companies that collectively represent 75% of the world’s mining activity.