

GERAD ANNUAL REPORT

2024-2025



GROUP FOR RESEARCH
IN DECISION ANALYSIS

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MESSAGE FROM THE DIRECTOR



Olivier Bahn
GERAD Director

As the Director of GERAD, I am pleased to present our 2024–2025 annual report. However, this year was marked by profound sadness for our community, which lost two iconic figures from its history.

I would therefore like to dedicate this annual report to Pierre Hansen, who passed away in January 2025, and François Soumis, who passed away in February 2025. Both helped build GERAD, devoting to it a significant part of their careers. Their exceptional scientific contributions, their unwavering commitment to decision science research, and their decisive role in the development and influence of GERAD, both in Quebec and internationally, have left a profound mark on our centre. Their intellectual and personal legacy will continue to inspire our work, our collaborations, and the training of future generations.

Despite these painful losses, the year 2024–2025 was one of dynamism and renewal for GERAD. We had the pleasure of welcoming new members who enhance our community and strengthen the diversity of our expertise. I would like to welcome these new regular members: Maryam Daryalal (HEC Montréal), Shuang Gao (Polytechnique Montréal), Utsav Sadana (Université de Montréal), and Bowen Yi (Polytechnique Montréal). We also welcome Abdellah Chehri (Royal Military College of Canada) as an associate member. Their arrival is proof of GERAD's appeal and its unifying role within Quebec's data science and decision science research ecosystem.

Several highlights marked the year. GERAD played a central role in organizing the 25th edition of the International Symposium on Mathematical Programming (ISMP 2024), held in Montréal and attended by more than 1,500 scientists from around the world. This international event demonstrated GERAD's ability to mobilize the scientific community around major far-reaching meetings and reconfirmed the importance of the research centre in the world of mathematical optimization. In addition, GERAD organized its first thematic semester, devoted to decision support for the energy transition and response to climate change. This

semester fostered sustained interdisciplinary exchanges and reinforced GERAD's commitment to major scientific and societal issues. Finally, the presence of 16 GERAD members in the 2024 Research.com ranking is an eloquent recognition of the excellence and international impact of our work.

Like every year, our members and students received numerous awards and honours in Quebec, Canada, and internationally. These acknowledgments attest to the quality of the research conducted at GERAD, its relevance to society, and the excellence of the training offered to the next generation of scientists.

I would like to conclude by expressing my sincere thanks to all those who contribute to the vitality of GERAD. I would particularly like to thank our funders, the foremost being the Fonds de recherche du Québec, as well as our partner universities (HEC Montréal, Polytechnique Montréal, McGill University, and the Université du Québec à Montréal). I would also like to thank our institutional and industrial partners for their trust and ongoing support. Finally, I would like to acknowledge the remarkable commitment of our members, students, postdoctoral researchers, and research professionals, as well as the essential contribution of our administrative and technical staff, whose work is indispensable to the smooth operation and reputation of the centre.

Enjoy your reading!

Olivier Bahn

GERAD

IN BREF

Created in 1979, GERAD is an inter-university research centre that brings together specialists in data and decision sciences, computer science, applied mathematics and mathematical engineering. These scientists come mainly from HEC Montréal, Polytechnique Montréal, McGill University and the Université du Québec à Montréal.



82 regular members from Quebec universities



106 research professionals and postdoctoral researchers



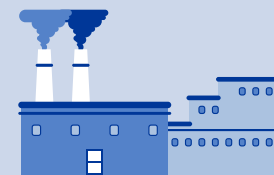
over \$39M
in grants and projects



121
members



681
students



**ABOUT
110**
partners



92
research activities



362
scientific publications

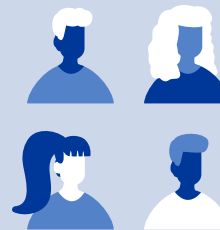


13
Quebec universities

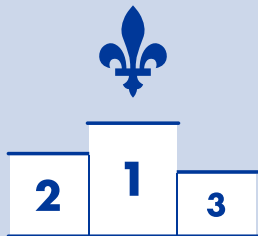
GERAD'S **MISSION:**



To develop the mathematics of decision-making in all its forms in complex systems – be they technological, commercial or economic – and upstream of decision-making, to develop modelling based on statistics, simulation and data valuation



To train highly qualified personnel in the above fields, promoting equity, diversity and inclusion



To bring university researchers together with industry, with a view to carrying out large-scale research and development projects and to contribute to the international influence of Quebec research



To have a significant impact on society through scientific innovation, the transfer of know-how in important sectors of the economy and the development of decision-making tools

FUNDAMENTAL RESEARCH

GERAD's scientific program is based on **four research axes:**

1 Data valuation for decision-making

2 Decision support made in complex systems

3 Decision support made under uncertainty

4 Real-time decision support

APPLICATIONS

GERAD doesn't only tackle theoretical and methodological developments along these four research axes, in fact, one of its defining characteristics is that it deploys these methods in the following **broad fields of application.**

1 Economy and finance

2 Energy, environment and natural resources

3 Smart infrastructures

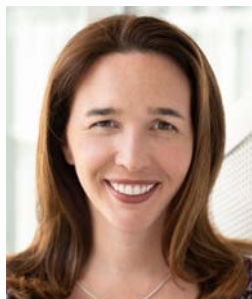
4 Engineering

5 Smart logistics

6 Marketing

7 Health

BOARD OF DIRECTORS



Caroline Aubé

Director of the Research and Knowledge Transfer Office

HEC Montréal



Olivier Bahn

GERAD Director and Chairman of the Board

HEC Montréal



Roussos Dimitrakopoulos

Professor; Member Representative

McGill University



Olivier Grenier

Director of the Research Office/Centre for Technological Development

Polytechnique Montréal



Patrick Jeandroz

Head of Expertise – Data Science and High-Performance Computing; Industry Representative

IREQ



Kristina Öhrvall

Director, Strategic Initiatives

McGill University



Geneviève Proulx

Director of the Research and Creation Office

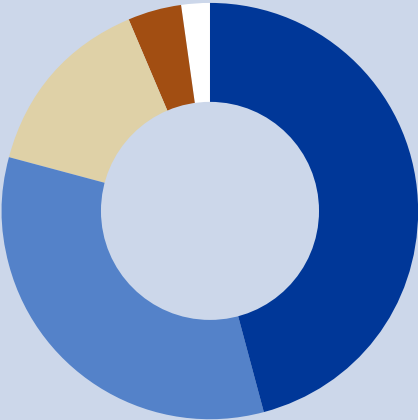
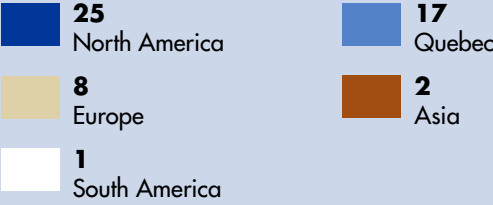
UQAM

OUR MEMBERS

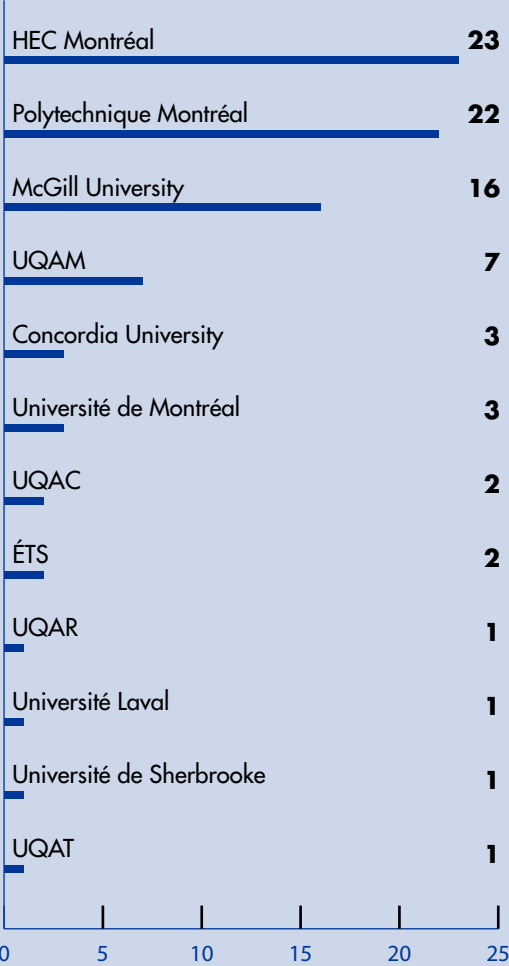
EVOLUTION OF OUR MEMBERSHIP

	2021-22	2022-23	2023-24	2024-25
Regular members	73	73	79	82
Associated members	34	33	34	36
Honorary members	3	2	2	2
Visiting members	1	2	2	1

DISTRIBUTION OF OUR ASSOCIATED MEMBERS



REGULAR MEMBERS BY INSTITUTION



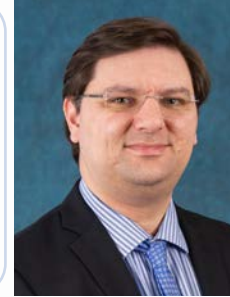
CHAIR HOLDERS AT GERAD



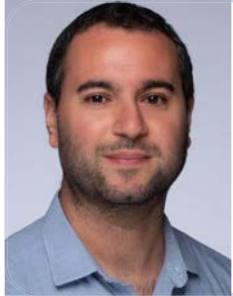
Yossiri Adulyasak
Canada Research Chair in
Supply Chain Analytics



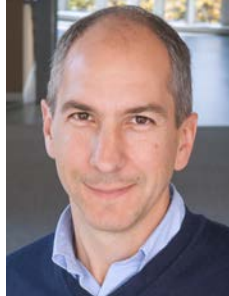
Loubna Benabbou
Research Chair in Artificial
Intelligence for Digital, Resilient, Agile and Sustainable
Supply Chains



Leandro C. Coelho
Canada Research Chair in
Integrated Logistics



Maxime Cohen
Scale AI Chair in Data
Science for Retail



**Jean-François
Cordeau**
Chair in Logistics and
Transportation



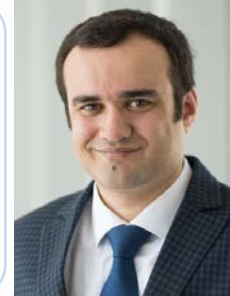
Erick Delage
Canada Research Chair
in Decision Making Under
Uncertainty



**Roussos
Dimitrakopoulos**
Canada Research Chair in
Sustainable Mineral Re-
source Development and
Optimization Under Uncer-
tainty



Christian Genest
Canada Research Chair
in Stochastic Dependence
Modeling



**Amir
Ardestani-Jaafari**
Principal's Research Chair
in Data-Driven Operations
Management



Raf Jans
Chair in Supply Chain
Operations Planning



Annie Levasseur
Canada Research Chair in
Measuring the Impact of
Human Activities on Climate
Change



Andrea Lodi
Canada Excellence
Research Chair in Data
Science for Real-Time
Decision-Making

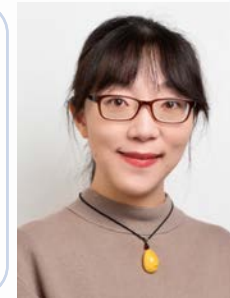
CHAIR HOLDERS AT GERAD



Carolina Osorio
Scale AI Research Chair
in Artificial Intelligence for
Urban Mobility and Logistics



Samira A. Rahimi
Canada Research Chair in
AI and Advanced Digital
Primary Health Care



Xiaozhe Wang
Canada Research Chair in
Resilient and Stable Ze-
ro-Emission Electric Power
Grids



Georges Zaccour
Chair in Game Theory
and Management

MEMBERS OF THE ROYAL SOCIETY OF CANADA (RSC)



Michèle Breton



Peter E. Caines



Leandro C. Coelho



Erick Delage



Jacques Desrosiers



**Roussos
Dimitrakopoulos**



Pierre Hansen



Gilbert Laporte

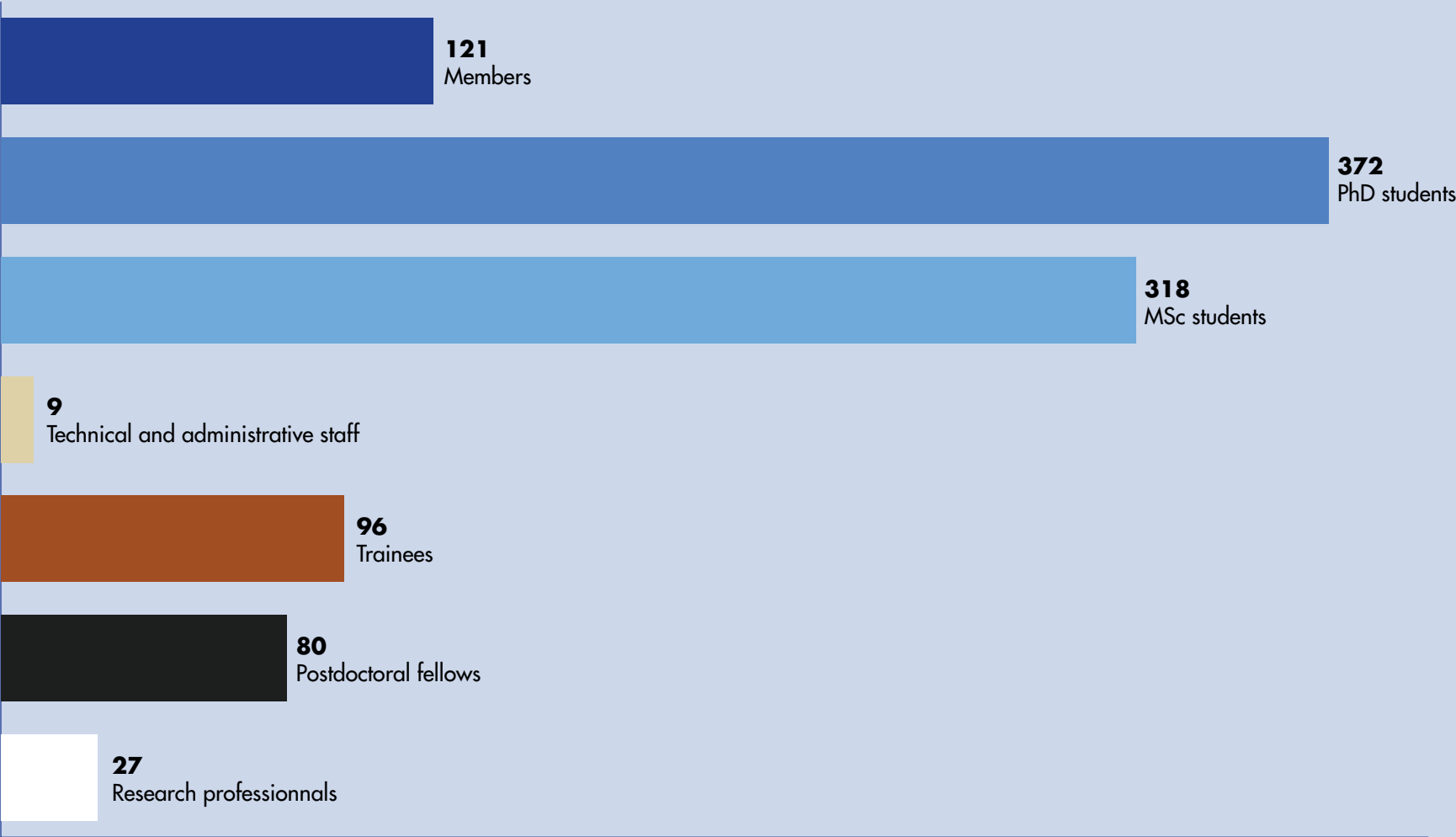


Saibal Ray



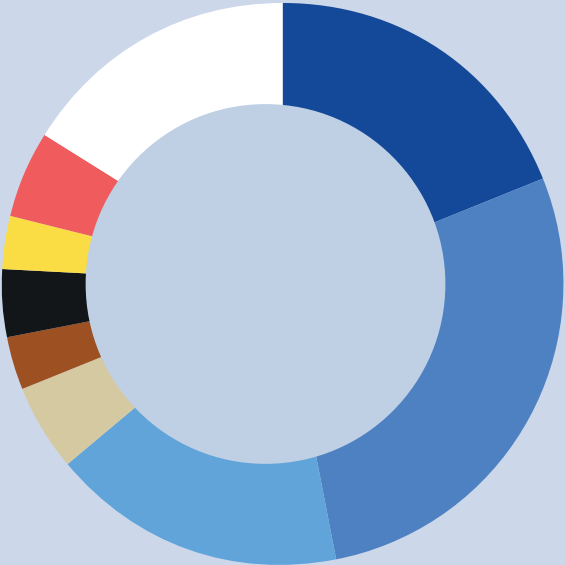
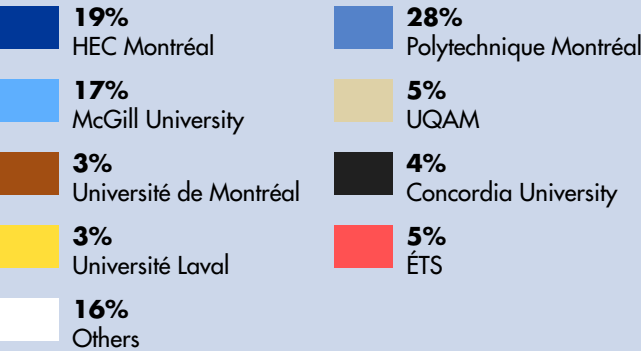
Georges Zaccour

COMPOSITION OF THE GERAD



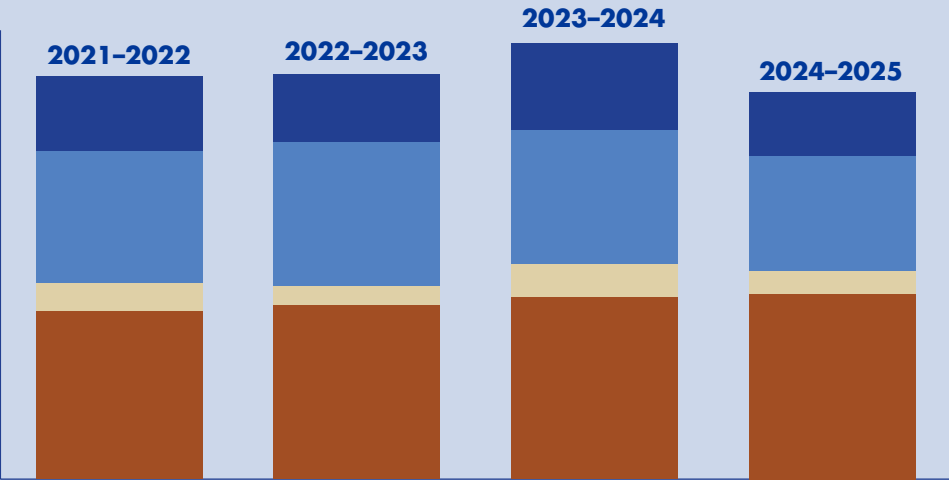
STUDENTS

STUDENTS ENROLLED AND GRADUATES BY UNIVERSITY



BREAKDOWN BY LEVEL

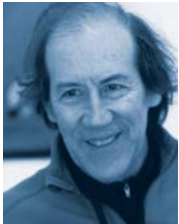
	2021-22	2022-23	2023-24	2024-25
MSc graduates	133	121	155	113
MSc enrolled	234	256	239	205
PhD graduates	50	34	59	42
PhD enrolled	301	311	325	330



HIGHLIGHTS OF THE YEAR



In January 2025, we were saddened to learn of the passing of Pierre Hansen, a member of GERAD for over 35 years and a senior researcher in the Department of Decision Sciences at HEC Montréal. He served as director of GERAD from 1996 to 2001.



On February 14, 2025, we were once again saddened, this time by the passing of François Soumis, a member of GERAD for over 36 years and a full professor in the Department of Mathematics and Industrial Engineering at Polytechnique Montréal. He has been a very active member of GERAD since its creation and served as its director from 1992 to 1996.

From July 21 to 26, 2024, the 25th edition of the International Symposium on Mathematical Programming (ISMP) was held at the Palais des congrès de Montréal, bringing together more than 1,500 scientists from around the world to present and share their latest advances in the field. Charles Audet, organizer of this triennial conference, was supported by GERAD in organizing the event.

In 2025, GERAD organized a thematic semester devoted to climate change, including several seminars and symposiums in partnership with CIRODD, RQEI, and CME. These initiatives promoted interdisciplinary collaboration and strengthened GERAD's commitment to climate research.

GERAD worked with CIRODD to launch a financial support program for strategic intergroup collaborative projects.

On November 5, 2024, Alain Hertz's new novel, *Bell et la Bête*, was launched at Polytechnique Montréal.

The first edition of OR@Africa was published as a [conference report](#) on the INFORMS website. It should be noted that [OR@Africa](#) was founded in September 2023 by a group of GERAD students, supported by GERAD and Professor Issmail El Hallaoui, in the GERAD seminar room. Congratulations on your efforts and recognition—you richly deserve it. Keep up the good work!

GERAD, in collaboration with several research centres, published a [document in French on the theme of research collaboration and teamwork as part of EDI approaches](#). This document aims to improve collaboration in research by taking into account disciplinary, methodological, and academic diversity, while offering concrete recommendations to members of scientific networks.

Hanane Dagdougui was promoted to full professor at Polytechnique Montréal.

James Forbes was promoted to full professor at McGill University.

Research.com published, in November 2024, the 4th edition of its ranking of the best scientists in several fields. [Here are the 16 GERAD members listed.](#)

In the field of mathematics:

Charles Audet, Jean-François Cordeau, Guy Desaulniers, Jacques Desrosiers, Roussos Dimitrakopoulos, Pierre Hansen, Alain Hertz, Brigitte Jaumard, Pierre L'Ecuyer, Andrea Lodi, Gilles Savard

In the field of computer science:

Leandro C. Coelho, Pierre Hansen, Alain Hertz, Pierre L'Ecuyer, Andrea Lodi, Gilles Savard

In the field of economics and finance:

Georges Zaccour

In the field of electronics and electrical engineering:

Peter Caines

In the field of business and management:

Gilbert Laporte

In the field of engineering and technology:

Charles Audet, Jean-François Cordeau, Guy Desaulniers, Jacques Desrosiers, Roussos Dimitrakopoulos, Minyi Huang, Brigitte Jaumard, Gilbert Laporte

OUR MEMBERS IN THE MEDIA

[“American Climate Scientists Have a New Canadian Hero,”](#) Juan C. Serpa, McGill University (interview published in *Maclean’s*, May 2025).

[“Catastrophes climatiques – Les connaissances sont nos meilleures armes,”](#) Annie Levasseur, ÉTS (article published in *La Presse*, May 2025).

[“Worthwhile Canadian Initiative! Really!,”](#) Juan C. Serpa, McGill University (interview published on *Legal Planet*, May 2025).

“McGill Platform Becomes Safe Space for Conserving U.S. Climate Research Under Threat,” Juan C. Serpa, McGill University (interview on [CTV News](#), the [Globe and Mail](#), [Toronto Star](#), [The Gazette](#), [CityNews](#), [Winnipeg Free Press](#), May 2025).

[“‘Digital Ark’ Set to Safeguard Climate Data from Trump,”](#) Juan C. Serpa, McGill University (interview published in *University World News*, May 2025).

“Climat : une équipe de McGill défend la science contre les menaces de Trump,” Juan C. Serpa, McGill University (interview published in [Radio-Canada Info](#), [La Presse](#), [Le Devoir](#), [L’éclair Progrès](#), May 2025).

[“Un guichet unique pour adapter nos infrastructures aux changements climatiques,”](#) Annie Levasseur, ÉTS (interview aired during the program *Côte à côte*, ICI Radio-Canada (Est-du-Québec), May 2025).

[“Les dimensions grandissantes des voitures, un problème de taille,”](#) Annie Levasseur, ÉTS (interview aired during the program *Moteur de recherche*, Radio-Canada OHdio, April 2025).

[“Corridor énergétique Manitoba-Nunavut : quel impact aura cette entente?,”](#) François Bouffard, McGill University (interview published on *Le 6 à 9*, Radio-Canada OHdio, April 2025).

[“La nouvelle cartographie des zones inondables pourrait affecter la valeur des propriétés. Voici pourquoi,”](#) Mathieu Boudreault, UQAM (interview published in *La Conversation*, April 2025).

[“Votre hypothèque – et possiblement votre assurance – pourraient être affectées par la nouvelle cartographie des zones inondables. Voyez comment,”](#) Mathieu Boudreault, UQAM (interview published in *La Conversation*, April 2025).

[“Sans assurances... et bientôt sans aide du gouvernement,”](#) Mathieu Boudreault, UQAM (interview published in *La Presse*, April 2025).

[“Couper l’électricité aux Américains serait risqué,”](#) François Bouffard, McGill University (interview published in *Le Journal de Québec*, March 2025).

[“Comment faire des brassées plus écologiques?,”](#) Annie Levasseur, ÉTS (interview published in *La Presse*, March 2025).

[“L’économie canadienne de demain doit se construire maintenant!,”](#) Annie Levasseur, ÉTS (open letter published in *Le Journal de Montréal* and *Le Journal de Québec*, March 2025).

[“Bouteille ou canette : quel contenant choisir pour la bière?,”](#) Annie Levasseur, ÉTS (interview published in *La Presse*, February 2025).

[“Pourquoi ne fait-on pas de photosynthèse artificielle?,”](#) Annie Levasseur, ÉTS (interview aired during the program *Moteur de recherche*, Radio-Canada OHdio, February 2025).

[“Les changements climatiques,”](#) Annie Levasseur, ÉTS (interview aired during the program *Feu vert*, Radio-Canada OHdio, February 2025).

[“La pile de Bagdad a-t-elle existé?,”](#) Annie Levasseur, ÉTS (interview aired during the program *Moteur de recherche*, Radio-Canada OHdio, January 2025).

OUR MEMBERS IN THE MEDIA

[“L’inaction climatique a un coût réel pour les générations futures,”](#) Annie Levasseur, ÉTS (open letter in *La Presse*, January 2025).

[“Avez-vous déjà calculé votre empreinte carbone?”](#) Annie Levasseur, ÉTS (interview published in *La Presse*, November 2024).

[“Prévenir les crises pour un avenir serein,”](#) Annie Levasseur, ÉTS (interview published in *Québec Science*, November 2024).

[“Comment sera déterminé le tracé de la nouvelle ligne électrique Appalaches–Bas-Saint-Laurent?”](#) François Bouffard, McGill University (interview aired during the program *Info-réveil*, Radio-Canada OHdio, November 2024).

[“Les 10 questions que vous n’avez jamais osé poser à Sihem Taboubi,”](#) Sihem Taboubi, HEC Montréal (interview published in *HEC Montréal MAG*, November 2024).

[“Doit-on enfouir les fils électriques avec les changements climatiques?”](#) Annie Levasseur, ÉTS (interview aired during the program *Moteur de recherche*, Radio-Canada OHdio, November 2024).

[“Thomas décode : le gaz naturel renouvelable,”](#) Annie Levasseur, ÉTS (interview broadcast on the *Thomas décode* channel, YouTube, November 2024).

[“Du méthane se dégage-t-il des réservoirs hydroélectriques québécois?”](#) Annie Levasseur, ÉTS (interview published in *Le Devoir*, October 2024).

[“Une nouvelle chaire pour l’adaptation aux changements climatiques,”](#) Annie Levasseur, ÉTS (interview published in *La Presse*, October 2024).

[“Emergency Preparedness: How to Stay Connected During Power Outages,”](#) Brunilde Sansò, Polytechnique Montréal (interview aired during the program *Let’s Go with Sabrina Marandola*, CBC Listen, October 2024).

[“Naufrage de l’*Endurance* en 1915. Des images de l’épave époustouflantes grâce à McGill,”](#) James R. Forbes, McGill University (interview published in *La Presse*, October 2024).

[“Comment les batteries sont-elles recyclées?”](#) Annie Levasseur, ÉTS (interview aired during the program *Moteur de recherche*, Radio-Canada OHdio, October 2024).

[“McGill University Researcher Helps Create 3D Scan of Lost Legendary Ship *Endurance*,”](#) James R. Forbes, McGill University (interview published on *CityNews Montreal*, October 2024).

[“*Endurance* Unveiled: McGill Team Helps Bring Shackleton’s Lost Ship to Life in 3D,”](#) James R. Forbes, McGill University (interview published in *The Gazette*, October 2024).

[“Le Québec risque de connaître encore plus de pannes à cause des vieux transformateurs d’Hydro,”](#) François Bouffard, McGill University (interview published in *La Presse*, October 2024).

[“Plus de la moitié des transformateurs aériens d’Hydro-Québec ont plus de 25 ans,”](#) François Bouffard, McGill University (interview aired on 98.5 FM, October 2024).

[“States Work to Track Down and Cap Dangerous Methane Leaks from Abandoned Oil and Gas Wells,”](#) Mary Kang, McGill University (interview aired on *PBS News Hour*, October 2024).

[“Est-il possible de faire passer un courant électrique sans fil?”](#) Annie Levasseur, ÉTS (interview aired during the program *Moteur de recherche*, Radio-Canada OHdio, September 2024).

OUR MEMBERS IN THE MEDIA

[“Tempête « Debby » : les sinistrés demandent l’aide du gouvernement en nombre record,”](#) Mathieu Boudreault, UQAM (interview aired on *TVA Nouvelles*, September 2024).

[“Byte-Sized Care: Is AI the Key to Cracking the Mental Health Crisis?”](#) Samira A. Rahimi, McGill University (interview published in *The Tribune*, September 2024).

[“Sustainable Fast Fashion Is a Three-Body Problem,”](#) Mehmet Gumus, Université McGill (interview published on *Delve*, September 2024).

[“À Churchill Falls, des niveaux d’eau moins élevés ont fait chuter les revenus,”](#) François Bouffard, McGill University (interview published on *Radio-Canada Info*, July 2024).

[“Hydro-Québec annonce un premier grand projet éolien de 9 milliards \\$,”](#) François Bouffard, McGill University (interview published on *Radio-Canada Info*, July 2024).

[“Est-il préférable pour l’environnement de produire sa propre électricité?”](#) Annie Levasseur, ÉTS (interview aired during the program *Moteur de recherche*, Radio-Canada OHdio, July 2024).

[“À quoi servent les pesées routières au bord des autoroutes?”](#) Annie Levasseur, ÉTS (interview aired during the program *Moteur de recherche*, Radio-Canada OHdio, June 2024).

[“B.C. Durvey of Abandoned Gas Wells Released to Mixed Reviews,”](#) Mary Kang, McGill University (interview published on *CBC News*, June 2024).

AWARDS AND HONOURS

Samira Abbasgholizadeh-Rahimi

President, Canadian Operations Research Society, 2023–2024

Finalist in the Women in AI Awards North America, 2023

Daniel Aloise

CAPTRS Special Award for Serious Games, HurricaneLog, Serious Games Society, 2023

Amir Ardestani-Jaafari

2024 Golden Apple Award in the category “Openly Discussing Wellbeing-related Topics,” University of British Columbia, 2024

Okan Arslan

Award for Teaching Excellence, HEC Montréal, 2023

Olivier Bahn

2023 Award of Excellence in the category of scientific collaboration for the [creation of modelling tools to combat climate change](#), Institut d’administration publique du Québec 2023

Jean-François Bégin

Maple Leaf Research Award, Actuarial Foundation of Canada, 2023

Early Career Faculty Research Award 2023, Faculty of Science, Simon Fraser University, 2023

Maxime Cohen

Appointed Head of Artificial Intelligence, Intégral, 2023

Finalist for the Best Paper Award on Diversity, Equity, Inclusion, and Justice (DEIJ), INFORMS, 2023 (for the article “The Impact of the Opportunity Zone Program on Residential Real Estate”)

Finalist in the 2023 INFORMS Behavioural Operations Management Best Working Paper Competition, INFORMS, 2023 (for the article “Customers’ Multihoming Behaviour in Ride-hailing: Empirical Evidence Using a Structural Model”)

Named one of RETHINK Retail’s Top Retail Influencers, 2024

Guy Desaulniers

INFORMS 2023 *Transportation Science* Meritorious Service Award for serving as an associate editor, 2023



Roussos Dimitrakopoulos

Elected Fellow of the Industry Academy, International Artificial Intelligence Industry Alliance (AIIA), 2024

Yichuan Daniel Ding

Winner Best Paper, 18th International Conference on Service Systems and Service Management, 2023

3rd prize, Best Paper Award, POMS International Conference in China, 2023

Issmail El Hallaoui, El Mehdi Er Raqabi, François Soumis

Finalist for the IFORS Prize for OR in Development, International Federation of Operational Research Societies (IFORS), 2023 (for the project “OCP optimizes its supply chain for Africa”)

AWARDS AND HONOURS

James Richard Forbes

Winner of the Samuel and Ida Fromson Outstanding Teaching Award in Engineering, McGill University, 2024

Michel Gamache

Teaching Merit Award, Best Professor in Mining Engineering, Polytechnique Montréal, 2024

Alain Hertz

Finalist for Best Graduate Teacher in Mathematics, Polytechnique Montréal, 2024

Minyi Huang

Fellow, Institute of Electrical and Electronics Engineers Association (IEEE), 2024

Mary Kang

2022 ES&T Best Paper Award (4th Runner-Up), Policy Analysis, 2024 (for the article “Documented Orphaned Oil and Gas Wells Across the United States”)

Michael Kokkolaras

2023 Design Automation Award in recognition of his longstanding and meritorious contributions to the design automation community, American Society of Mechanical Engineers, 2023

Gilbert Laporte

SEIO-BBVA Foundation prize for the best article in applied operations research, 2023 (for the article “A Cost-Sharing Mechanism for Multi-Country Partnerships in Disaster Preparedness”)

Appointed Knight of the Ordre national du Québec, 2023

Doctorate *honoris causa* from Molde University College, 2023

Editor’s Award for Excellence in Reviewing, *European Journal of Operational Research*, 2024

Andrea Lodi

Fellow, INFORMS, 2023

Saibal Ray

Appointed Vice-Dean of the Desautels Faculty of Management and Academic Affairs at McGill University, 2023

Named one of RETHINK Retail’s Top Retail Influencers, 2024

Sara Séguin

Outstanding reviewer, *IEEE Transactions on Sustainable Energy*, 2024

Xiaozhe Wang

Humboldt Research Fellowship for Experienced Researchers, 2024

International Excellence Scholarship, Karlsruhe Institute of Technology, 2024

Rubin & So Foundation Faculty Scholar Award, McGill’s Trottier Institute for Sustainability in Engineering and Design (TISED), 2023

These 20 GERAD members are among the most influential scientists in the world in various fields of research, according to a study by Mendeley (Elsevier) published in September 2024.

- **Charles Audet**
- **François Bouffard**
- **Peter E. Caines**
- **Abdellah Chehri**
- **Leandro C. Coelho**
- **Maxime C. Cohen**
- **Jean-François Cordeau**
- **Hanane Dagdougui**
- **Guy Desaulniers**
- **Roussos Dimitrakopoulos**
- **Pierre Hansen**
- **Alain Haurie**
- **Alain Hertz**
- **Minyi Huang**
- **Brigitte Jaumard**
- **Gilbert Laporte**
- **Pierre L'Ecuyer**
- **Andrea Lodi**
- **Carolina Osorio**
- **Georges Zaccour**

GERAD AWARDED \$160,173 IN SCHOLARSHIPS AND PRIZES

STUDENTS WHO OBTAINED SCHOLARSHIPS

GERAD

Four scholarships for undergraduate foreign trainees awarded.

Twelve conference expenses scholarships awarded.

Nima Akbarzadeh (HEC Montréal)
Postdoctoral fellowship

Janos Chaim Raban Füting (HEC Montréal)
Research scholarship for co-supervised doctoral student

El Mehdi Er Raqabi (Polytechnique Montréal)
Excellence scholarship for the best doctoral thesis, 2024

Meisseme Kadri (Polytechnique Montréal)
Research scholarship for co-supervised doctoral student

Mohamed Laghdaf Habiboullah (Polytechnique Montréal)
Research scholarship for co-supervised doctoral student

Walton Pereira Coutinho (Université Laval)
Postdoctoral fellowship

Ludovic Salomon (Polytechnique Montréal)
Postdoctoral fellowship

Ziuyan Sun (Université Concordia)
Research scholarship for co-supervised doctoral student

Others

Mhd Diaa Chalati (McGill University)
Clinical research scholar, FRQS

Léo Guillon (Polytechnique Montréal)
Stratégia fellowship, CRM, GERAD, UNIQUE, 2024

Patrick Lachapelle (ÉTS)
Stratégia fellowship, CRM, GERAD, UNIQUE, 2024

Maïka Lamoureux (HEC Montréal)
Stratégia fellowship, CRM, GERAD, UNIQUE, 2024

Xiaorui Lei (Concordia University)
Recruitment scholarship, CANSSI Québec, 2024

Mridul Sharma (McGill University)
Doctoral research scholarship, FRQS

Dasen Ye (HEC Montréal)
Bourse du Réseau Fin-ML, 2024

Sara Ghaboulian Zare (Université de Montréal)
Stratégia fellowship, CRM, GERAD, UNIQUE, 2024

Student awards

Alireza Alavi (McGill University)

2024 DEI (Diversity, Equity, and Inclusion) Best Student Paper Award, INFORMS, 2024 (for the paper “Designing Size Inclusive Fashion Assortments”)

Nathan Allaire (Polytechnique Montréal)

Best Industrial Paper Award, 14th International Conference on Pattern Recognition Applications and Methods (ICPRAM 2025), 2025 (for the paper “Zeroth Order Optimization for Pretraining Language Models”)

Clément Aymard (HEC Montréal)

Cascad award for the excellence in reproducible research in the field of finance, 41st International Conference of the Association Française de Finance (AFFI), 2025 (for the paper “Examining High-Frequency Patterns in Robinhood Users’ Trading Behavior”)

Valentin Dijon (Polytechnique Montréal)

1st prize for the best oral presentation in the future industry and digital society, Student Engineering Research Conference at Polytechnique Montréal (PolyCongRÉ), 2025

Mohan Du (McGill University)

Ashok Vijn Grand Sages Award in Electrochemistry, FRQNT, 2024

El Mehdi Er Raqabi (Polytechnique Montréal)

EURO Excellence in Practice Award 2024, 33rd EURO Conference, Denmark (for the project “OCP Optimizes its Supply Chain for Africa and The World”)

Aidan Gerkis (McGill University)

Third place in the SEDTalks competition, Trottier Institute for Sustainability in Engineering and Design (TISED), 2024

Zi Cong (Daniel) Guo (University of Toronto)

Best Conference Paper Award, International Conference on Robotics and Automation (ICRA), 2025 (for the paper “Marginalizing and Conditioning Gaussians onto Linear Approximations of Smooth Manifolds with Applications in Robotics”)

Laura Kolcheva (Polytechnique Montréal)

Gilbert Laporte Student Paper Award, CORS, 2024 (for the presentation “Optimisation stochastique en ligne pour la synchronisation des transferts en temps réel dans les réseaux de transport public”)

Best Student Paper Competition – Open category, Canadian Operational Research Society, 2024 (for the paper “Online Stochastic Optimization for Real-Time Transfer Synchronization in Public Transportation Networks”)

Daniel Kopsisitskiy, Bárbara Rodrigues and Denise Cariaga Sandoval (University of Edinburgh)

The Edinburgh team advised by Miguel F. Anjos won the Modelling and Optimisation: Theory and Applications (MOPTA) Competition, 2024

Hannah Merrigan (Polytechnique Montréal)
Best Poster Award, 5th GERAD Student Day, 2025

Gianni Micucci (McGill University)

Best Presentation Award, 5th GERAD Student Day, 2025

Paul Saves (ISAE-SUPAERO/Polytechnique Montréal)
Thesis Award, Fondation ISAE-SUPAERO, 2024

Syed Shabbir Ahmed (McGill University)

Winner of the 2025 Gold Medal for “Outstanding Academic Achievement in Mechanical Engineering”, The Canadian Society for Mechanical Engineering, 2025

Mohammed Shalaby (McGill University)

Finalist for the 2024 Best Dissertation Award on Multi-Robot Systems, IEEE Multi-Robot Systems Technical Committee, 2024 (thesis title: *Ultra-wideband for Robot Navigation: Calibration, Communication, and State Estimation*)

Xin Wang (HEC Montréal)

Honourable mention in the Gilbert Laporte Student Paper Award, CORS, 2024 (for the paper “Crowdkeeping in Last-Mile Delivery”)

FUNDING AND GRANTS

GERAD RECEIVED THE FOLLOWING IN INFRASTRUCTURE GRANTS:

\$500,000
from the FRQNT Strategic Clusters program

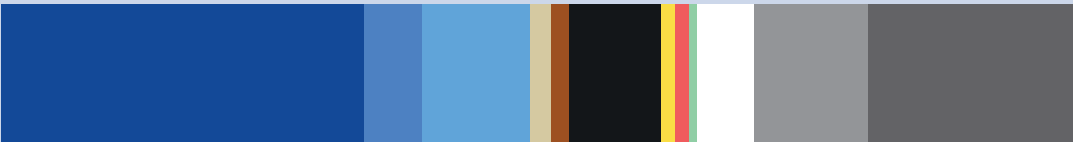
\$117,549
from IVADO

\$205,000
from academic institutions

\$38,000
from research chairs and professors

\$39.8 MILLION IN RESEARCH GRANTS

*Amount of the grants received by GERAD members. Annual amounts are the total grant divided by the duration of the grant (number of years). By weighting the number of researchers on a project who are GERAD members, the amount that is directly tied to members is approximately \$19.6 million annually.



\$13,459,776
NSERC

\$2,134,352
Research chairs

\$4,015,050
MITACS

\$788,465
Contracts

\$680,000
IVADO

\$3,384,480
FRQ

\$546,162
Academic institutions

\$513,156
SSHRC

\$292,166
Scholarships

\$2,104,071
CIHR

\$4,248,290
New Frontiers in Research Fund

\$7,610,774
Others

- \$3.4 million in Discovery Grants this year
- \$4 million in MITACS projects
- \$8 million for 26 NSERC Alliance grants

- \$960,000 in four NSERC CREATE grants
- \$925,000 in three FRQNT STRATEGIA initiative projects
- \$350,000 for the COSMO Stochastic Mine Planning Laboratory

PUBLICATIONS

271

published articles

81

papers in refereed conference proceedings

10

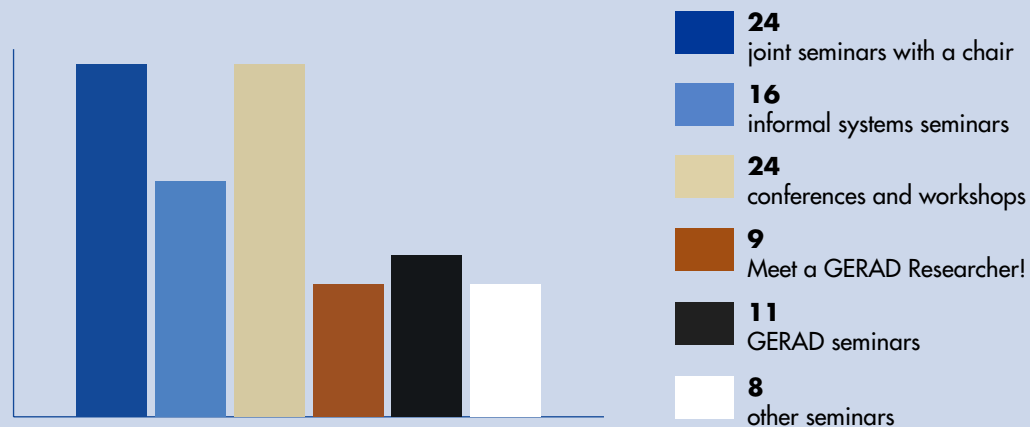
books and chapters

99

Cahiers du GERAD and revisions

SCIENTIFIC ACTIVITIES ORGANIZED BY GERAD

ACTIVITIES IN 2024–2025



WORKSHOPS AND CONFERENCES

- 2 welcome sessions
- 4 LaTeX training courses
- 5th GERAD Students Day
- 2nd Derivative-Free Optimization Symposium
- 3rd Workshop on Dynamic Games and Applications
- Workshop on Personal Knowledge Management
- Beyond the Thesis: Journeys in Science
- 10th Meeting on System and Control Theory
- Stochastic, Mean-Field and Network Systems, and Beyond, workshop in honour of the 80th birthday of Professor Peter E. Caines
- 20th International Symposium on Dynamic Games and Applications
- JuMP-dev 2024
- 25th International Symposium on Mathematical Programming (ISMP 2024)
- 2024 GERAD Day
- OR@Africa Annual Day
- Symposium on “Digital Intelligence for Climate Change Mitigation”
- 18th INFORMS Computing Society Conference
- Symposium on “Using Decision Analysis to Shape Climate Change Solutions”
- 11th International Conference on VNS
- 2025 School on Column Generation



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