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Dr. Gabriel Moisan

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Date of Birth: 6/19

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Primary Affiliation (*)

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Dr. Gabriel Moisan

Degrees

2020/1 - 2020/12	Post-doctorate, Kinesiology, Université Laval Degree Status: Completed
2019/9 - 2020/1	Post-doctorate, Podiatry, University of Salford Degree Status: Completed
2015/9 - 2019/12	Doctorate, Biomedical sciences, Université de Montréal Degree Status: Completed
2014/1 - 2015/12	Master's Thesis, Human Kinetics, Université du Québec à Trois-Rivières Degree Status: Completed
2010/9 - 2014/4	Bachelor's Equivalent, Doctorate in podiatric medicine, Université du Québec à Trois-Rivières Degree Status: Completed

Credentials

2014/5	Doctor in podiatric medicine (DPM), Quebec College of Podiatrists
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Recognitions

2026/4	Outstanding Emerging Researcher Award Université du Québec à Trois-Rivières
2024/5 - 2028/4	FRQ-S Junior 1 Career Award Fonds de recherche du Québec - Santé (FRQS)
2023/7	Editorial Board Member BMC Musculoskeletal disorders
2021/1	Editorial Board Member Journal of Foot and Ankle Research
2020/5 - 2022/4	Postdoctoral Fellowship Fonds de recherche du Québec - Santé (FRQS)

Employment

2025/6	Associate professor Human Kinetics, Podiatric medicine, Université du Québec à Trois-Rivières
2020/12 - 2025/5	Assistant professor Human Kinetics, Podiatric medicine, Université du Québec à Trois-Rivières

2015/9 - 2019/9	Lecturer Human Kinetics, Podiatric Medicine, Université du Québec à Trois-Rivières
2014/6 - 2019/7	Podiatrist Sorel-Tracy podiatry clinic
2015/5 - 2017/9	Teaching assistant Human Kinetics, Podiatric Medicine, Université du Québec à Trois-Rivières

Affiliations

The primary affiliation is denoted by (*)

(*) 2020/12 Associate professor, Human Kinetics, Université du Québec à Trois-Rivières

Research Funding History

Awarded [n=14]

2026/4 - 2032/3 Principal Investigator	Effectiveness foot orthoses to reduce the impact of posterior tibial tendon dysfunction: a randomized controlled trial Funding Sources: Canadian Institutes of Health Research (CIHR) Project Grant Total Funding - 715,275 Funding Competitive?: Yes Co-investigator : Jacques Abboud; Jean-Sébastien Roy; Virginie Blanchette; Collaborator : Dominic Chicoine; Kelly Robb; Logananda Boodadoo; Pier-Luc Isabelle
2025/3 - 2030/3 Principal Applicant	Applied biomechanics for neuromusculoskeletal health Funding Sources: Canada Foundation for Innovation (CFI) John R. Evans Leaders Fund (JELF) Total Funding - 600,931 Funding Competitive?: Yes Principal Applicant : Jacques Abboud
2026/9 - 2029/8 Principal Applicant	Evaluation of the effects of heel lifts and calcaneal tendinopathy on gait biomechanics Funding Sources: Canadian Institutes of Health Research (CIHR) Canada Impact+ Research Training Awards Total Funding - 120,000 Funding Competitive?: Yes Co-applicant : Jacques Abboud; Jean-Gilles Féron
2024/5 - 2028/4 Principal Investigator	Towards optimization of orthotic therapy for patients with chronic musculoskeletal foot disorders Funding Sources: Fonds de recherche du Québec - Santé (FRQS) Research Scholars - Junior 1 Total Funding - 357,526 Funding Competitive?: Yes

- 2023/5 - 2028/4
Co-investigator
- Implement technology and artificial intelligence in the daily lives of clients for optimal treatment (dosage, progression, personalization): Together we can do more! Doing more together!
- Funding Sources:**
Fonds de recherche Lindsay
Prix Lindsay
Total Funding - 800,000
Funding Competitive?: Yes
- Co-investigator : Anne Hudon; Cyril Duclos; David Labbé; Éline de Guise; Félix Chénier; Johanne Higgins; Marika Demers; Mindy Levin; Rachid Aissaoui;
- Principal Investigator : Dahlia Kairy; Sylvie Nadeau
- 2023/5 - 2028/4
Principal Investigator
- Towards an improved understanding of the mechanism of action of foot orthoses: development of an integrated biomechanical framework
- Funding Sources:**
Natural Sciences and Engineering Research Council of Canada (NSERC)
Discovery grant
Total Funding - 177,500
Funding Competitive?: Yes
- 2025/11 - 2027/11
Principal Investigator
- Biomechanical effects of foot orthoses in individuals with posterior tibialis tendon dysfunction
- Funding Sources:**
Quebec Podiatrists Association
Research funding
Total Funding - 1,000
Funding Competitive?: Yes
- Collaborator : Ahmed Dami; Eléna Payen
- 2025/5 - 2026/11
Principal Applicant
- Competitive fund for research instruments (MAO-Recherche)
- Funding Sources:**
Université du Québec à Trois-Rivières (UQTR)
MAO-Recherche
Total Funding - 113,394
Funding Competitive?: Yes
- Principal Applicant : Andrée-Anne Marchand; Isabelle Pagé; Jacques Abboud; Laurie-Ann Corbin Berrigan; Martin Descarreaux
- 2023/5 - 2026/9
Co-investigator
- Shared decision making to increase self-management for people with diabetes and lower limb amputations
- Funding Sources:**
War Amps (The)
Subvention de recherche relative à l'amputation
Total Funding - 199,352
Funding Competitive?: Yes
- Co-investigator : Anik Giguère; Diana Zidarov; France Légaré; Laura Drudi; Magali Brousseau-Foley;
- Collaborator : Jérôme Patry;
- Principal Investigator : Virginie Blanchette;
- Principal Knowledge User : Jean-Pierre Bureau; Yvette Plourde

- 2024/6 - 2026/6
Principal Investigator Normative values for the supination resistance test
- Funding Sources:**
Quebec College of Podiatry
Research funding
Total Funding - 4,242
Funding Competitive?: Yes
- Co-investigator : Dominic Chicoine; Pier-Luc Isabelle
- 2024/12 - 2026/4
Principal Investigator International norms for the supination resistance test
- Funding Sources:**
Université du Québec à Trois-Rivières (UQTR)
Programme d'aide à l'internationalisation de la recherche
Total Funding - 15,000
Funding Competitive?: Yes
- Co-investigator : Álvaro Gómez Carrión; Ian Griffiths; Nader Farahpour; Sean McBride;
Collaborator : Dominic Chicoine; Pier-Luc Isabelle
- 2025/5 - 2026/4
Co-investigator Double-blind, randomized, controlled clinical trial to evaluate the effectiveness of customized foot orthoses for chronic forefoot pain
- Funding Sources:**
Université du Québec à Trois-Rivières (UQTR)
Scholarship for involvement of lecturers in research
Total Funding - 7,500
Funding Competitive?: Yes
- 2022/5 - 2026/4
Co-applicant Research Group on Neuromusculoskeletal Disorders, Operating grant
- Funding Sources:**
Université du Québec à Trois-Rivières (UQTR)
Institutional Research Funds
Total Funding - 75,000
Funding Competitive?: Yes
- Co-applicant : André Bussièrès; Isabelle Pagé; Jacques Abboud; Laurie-Ann Corbin Berrigan; Martin Descarreaux; Phillipe Fait; Stéphane Sobczak
- 2023/5 - 2026/4
Principal Investigator Toward a better treatment to optimize biomechanical function in individuals with a foot amputation
- Funding Sources:**
War Amps (The)
Subvention de recherche relative à l'amputation
Total Funding - 179,937
Funding Competitive?: Yes
- Collaborator : Nader Farahpour; Virginie Blanchette
- Completed [n=20]**
- 2024/10 - 2025/9
Principal Investigator Effects of foot orthoses on lower limb biomechanics in individuals with chronic foot musculoskeletal disorders
- Funding Sources:**
Quebec Podiatrists Association
Research funds
Total Funding - 2,000
Funding Competitive?: Yes

	Collaborator : Ahmed Dami; Eléna Payen
2024/9 - 2025/5 Principal Applicant	Foot orthoses laboratory Funding Sources: Université du Québec à Trois-Rivières (UQTR) MAO-TIC Total Funding - 169,859 Funding Competitive?: Yes Principal Applicant : Olivier Hue
2024/5 - 2025/5 Co-investigator	Development of international norms for the supination resistance test Funding Sources: Fondation de l'Université du Québec À Trois-Rivières Scholarship for involvement of lecturers in research Total Funding - 7,500 Funding Competitive?: Yes Co-investigator : Dominic Chicoine; Principal Investigator : Pier-Luc Isabelle
2020/5 - 2025/4 Principal Investigator	Research animation and dissemination fund Funding Sources: Fondation de l'Université du Québec À Trois-Rivières Research animation and dissemination fund Total Funding - 8,000 Funding Competitive?: Yes
2024/9 - 2025/3 Principal Applicant	Toward a better treatment to optimize biomechanical function in individuals with a foot amputation Funding Sources: Mathematics of Information Technology and Complex Systems (MITACS) Globalink Total Funding - 6,000 Funding Competitive?: Yes
2023/4 - 2024/12 Co-investigator	Motor adaptations when going up and down stairs in people with chronic low back pain Funding Sources: Réseau Provincial de Recherche en Adaptation-Réadaptation (REPAR) Clinical Research 1.1 Total Funding - 20,000 Funding Competitive?: No Co-investigator : Hugo Massé-Alarie; Louis-David Beaulieu; Rubens da Silva; Principal Investigator : Jacques Abboud
2024/5 - 2024/11 Principal Investigator	Competitive fund for research instruments (MAO-Recherche) Funding Sources: Université du Québec à Trois-Rivières (UQTR) MAO-Recherche Total Funding - 67,735 Funding Competitive?: Yes Principal Investigator : Jacques Abboud
2023/6 - 2024/9 Principal Investigator	Supination resistance in patients with musculoskeletal disorders

Funding Sources:

Quebec College of Podiatrists
 Research funds in podiatry
 Total Funding - 3,500
 Funding Competitive?: Yes

2022/9 - 2024/9
 Co-investigator

Optimization of prosthetic management: Toward an objective clinical follow-up in individuals with lower limb amputations

Funding Sources:

War Amps (The)
 Subvention de recherche relative à l'amputation
 Total Funding - 191,500
 Funding Competitive?: Yes

Co-investigator : Maxime Robert;
 Collaborator : Ariane Rajotte-Martel; Edith Boulianne; Marie-Josée Gagné;
 Principal Investigator : Katia Turcot

2022/9 - 2024/8
 Co-investigator

Prototype 2 Smart bike- Sensory component

Funding Sources:

INTER
 Research mandate
 Total Funding - 21,000
 Funding Competitive?: Yes

Co-investigator : Cyril Duclos; David Labbé; Rachid Aissaoui;
 Collaborator : Claudine Auger; Dahlia Kairy;
 Principal Investigator : Sylvie Nadeau

2022/9 - 2024/5
 Principal Investigator

Development of optimal orthotic therapy in individuals with chronic metatarsalgia

Funding Sources:

The Quebec Rehabilitation Research Network
 Program 1.1. Clinical research
 Total Funding - 20,000
 Funding Competitive?: Yes

Co-investigator : Katia Turcot; Mickael Begon

2022/5 - 2024/4
 Principal Applicant

Supination resistance of the foot and biomechanics of functional tasks in participants with chronic ankle instability

Funding Sources:

Université du Québec à Trois-Rivières (UQTR)
 Program for research internationalization (PAIR)
 Total Funding - 30,000
 Funding Competitive?: Yes

Collaborator : Sean McBride

2023/5 - 2024/4
 Co-investigator

Impact of a foot orthosis on postural control reactions and gait in adult and elderly individuals with plantar fasciopathy: A feasibility study

Funding Sources:

Université du Québec à Chicoutimi (UQAC)
 Support Program for Research and Creation Development (PSDrc)
 Total Funding - 7,000
 Funding Competitive?: Yes

Co-investigator : Louis-David Beaulieu;

Collaborator : Cristina Ortis; Jérôme Bouchard-Tremblay; Laure Richer; Stéphane Sobczak

2023/1 - 2024/3
Co-investigator

Cycling to Improve Health: Development and Evaluation of TRIVEL's Smart Bike (VI)
Training Prescription Programs

Funding Sources:

Quebec Network for Research on Aging

Pilot project

Total Funding - 40,000

Funding Competitive?: Yes

Co-investigator : Claudine Auger; Cyril Duclos; Dahlia Kairy; David Labbé; Elaine De Guise; Nicolas Berryman; Rachid Aissaoui;

Collaborator : Julie Soulard; Roua Walha;

Principal Investigator : Sylvie Nadeau

2023/5 - 2023/11
Principal Applicant

Competitive fund for research instruments (MAO-Recherche)

Funding Sources:

Université du Québec à Trois-Rivières (UQTR)

MAO Recherche

Total Funding - 61,211

Funding Competitive?: Yes

Co-applicant : Stéphane Sobczak;

Principal Applicant : Jacques Abboud

2022/1 - 2023/4
Principal Investigator

Institutional Research Fund

Funding Sources:

Université du Québec à Trois-Rivières (UQTR)

General Research Fund

Total Funding - 5,000

Funding Competitive?: Yes

2022/5 - 2023/4
Co-applicant

Competitive fund for research instruments (MAO-Recherche)

Funding Sources:

Université du Québec à Trois-Rivières (UQTR)

Competitive fund for research instruments (MAO-Recherche)

Total Funding - 27,148

Funding Competitive?: Yes

Co-applicant : André Bussièrès; Isabelle Pagé; Jacques Abboud; Laurie-Ann Corbin Berrigan; Martin Descarreaux; Phillippe Fait; Stéphane Sobczak

2022/5 - 2023/4
Principal Investigator

Supination resistance of the foot in individuals with musculoskeletal disorders

Funding Sources:

Quebec Podiatrists Association

Research funds

Total Funding - 4,500

Funding Competitive?: Yes

2020/12 - 2022/12
Principal Investigator

Start-up fund

Funding Sources:

Université du Québec à Trois-Rivières

Start-up fund

Total Funding - 34,548
Funding Competitive?: No

2021/5 - 2022/4
Principal Applicant

Competitive fund for research instruments (MAO-Recherche)

Funding Sources:

Université du Québec à Trois-Rivières (UQTR)
Competitive fund for research instruments (MAO-Recherche)

Total Funding - 46,826
Funding Competitive?: Yes

Co-applicant : Magali Brousseau-Foley

Under Review [n=1]

2026/5 - 2027/11
Principal Investigator

Competitive fund for research instruments (MAO-Recherche)

Funding Sources:

Université du Québec à Trois-Rivières (UQTR)
MAO-Recherche

Total Funding - 76,216
Funding Competitive?: Yes

Co-applicant : Roséane Guimaraes Czelusniak; Stéphanie-May Ruchat;

Principal Applicant : Jacques Abboud

Publications

Journal Articles

1. Asghari V, Farahpour N, Robbins S, Moisan G, Majlesi M. (2026). Kinematic Changes of Lower-Limb Joints During Walking in Individuals with Chronic Ankle Instability on Flat and Inclined Surfaces. *Journal of Sport Biomechanics*. 12(2): 302-319.
Published
Refereed?: Yes
2. Payen E*, Acien M*, Marchand AA, Isabelle P, Abboud J, Moisan G. (2026). Custom foot orthoses for chronic metatarsalgia: Study protocol for a participant- and assessor-blinded superiority randomized controlled trial. *Plos One*. 16(21): e0340905.
Published
Refereed?: Yes
3. Thibault-Piedboeuf A, Laurendeau S, Miramand L, Moisan G, Turcot K. (2026). Individuals with a trans-tibial amputation present trunk and lower limbs biomechanical asymmetry during sit-to-stand transitions. *Prosthetics and Orthotics International*. tbd: tbd.
Accepted
Refereed?: Yes, Open Access?: No
4. Moisan G, Isabelle PL, Gómez Carrión Á, Chicoine D, Farahpour N, Griffiths I, Dami A*, Reguera Medina JM, McBride S. (2026). Establishing normative values for the supination resistance test: an international cross-sectional study. *Journal of Foot and Ankle Research*. 19(1): e70137.
Published
Refereed?: Yes

5. Robb K, Ryan M, Moisan G. (2026). Clinical outcomes of custom foot orthoses in progressive collapsing foot deformity: a retrospective cohort analysis. *Journal of Foot and Ankle Research*. tbd: tbd.
Submitted
Refereed?: Yes
6. Payen Schalkens E*, Acien M*, Isabelle P, Turcot K, Begon M, Abboud J, Moisan G. (2026). Effect of foot orthoses on the biomechanics of stair ascent and descent in chronic metatarsalgia. *Journal of Biomechanics*. tbd: tbd.
Submitted
Refereed?: Yes
7. McBride S, Isabelle P, Gómez Carrión Á, Farahpour N, Chicoine D, Griffiths I, Dami A, Reguera Median JM, Moisan G. (2026). International Normative Values for the Weight-Bearing Lunge Test Across Age and Sex in 899 Healthy Adults. *Musculoskeletal Science and Practice*. 82(April): 103525.
Published
Refereed?: Yes
8. Farahpour N, Mohammadi Yaghoubi U*, Robbins S, Allard P, Moisan G. (2026). Dynamic Step-Down Tasks Reveal Altered Lower Limb Biomechanics in Chronic Ankle Instability. *Journal of Foot and Ankle Research*. 19(1): e70102.
Published
Refereed?: Yes
9. Naeimvafa Z, Farahpour N, Moisan G. (2026). Spatio-Temporal Parameters and Range of Motion of Lower Limb Joints During Running in Individuals with Adolescent Idiopathic Scoliosis with Mild Thoracic and Lumbar Curvature. *Journal of Sport Biomechanics*. 11(4): 344-0.
Published
Refereed?: Yes
10. Acien M*, Dami A*, Blanchette V, Moisan G. (2025). Postural Control Imbalance in Individuals With a Minor Lower Extremity Amputation: A Scoping Review. *Gait and Posture*. 122(October): 339-351.
Published
Refereed?: Yes
11. Dami A*, Payen E*, Isabelle P, Farahpour N, Moisan G. (2025). Comparative analysis of lower limb biomechanics during unilateral drop jump landings on level and medially inclined surfaces. *PLOS ONE*. 20(5): e0322562.
Published
Refereed?: Yes
12. Abbasi S, Farahpour N, Heidari B, Moisan G, Allard P. (2025). Spatiotemporal and ground reaction force components during straight and pivoting gait in adolescent idiopathic scoliosis patients with lumbar curvature and healthy individuals. *Journal of Biomechanics*. tbd: tbd.
Submitted
Refereed?: Yes
13. *Vadez G, *Payen E, da Silva R, Beaulieu LD, Massé-Alarie H, Moisan G, Abboud J. (2025). Motor Adaptations During Stair Ascent and Descent in Individuals with Chronic Primary Low Back Pain. *Journal of Electromyography and Kinesiology*. 21(86): 103101.
Published
Refereed?: Yes
14. Moisan G, Chicoine D, Bouchard M, Laurendeau S, Belzile E, Corbeil P. (2025). Effects of prefabricated and custom foot orthoses on the biomechanics of the lower limbs of individuals with a posterior tibialis tendon dysfunction during stair climbing. *Clinical Biomechanics*. 127: 106602.
Published
Refereed?: Yes

15. *Mohammadi Yaghoubi U, Farahpour N, Mansoorizadeh M, Moisan G. (2025). Evaluation of Single-leg Balance during Landing from 20- and 40-centimeter Heights in Individuals with and without Chronic Ankle Instability. *Journal of Sport Biomechanics*. 11(1): 2-19.
Published
Refereed?: Yes, Open Access?: Yes
16. Payen E*, Acien M*, Isabelle P-L, Turcot K, Begon M, Abboud J, Moisan G. (2025). Gait biomechanics in individuals with chronic metatarsalgia: a case-control study. *Gait and Posture*. tbd: tbd.
Submitted
Refereed?: Yes
17. Mohammadi Yaghoubi U*, Ghorbani-Amjad G, Farahpour N, Moisan G,. (2025). Biomechanical deficits in chronic ankle instability: a comparative study of landing strategies on a laterally inclined surface. *BMC Musculoskeletal disorders*. tbd: tbd.
Submitted
Refereed?: Yes
18. Farokhroo N, Farahpour N, Moisan G, Heydari B, Majlesi M. (2025). Effects of Knee and Ankle Brace on Lower Limb Kinematics During Jump-Heading-Landing in Professional Soccer Players following ACL Reconstruction. *Journal of Sport Biomechanics*. 10(4): 324-344.
Published
Refereed?: Yes
19. Ghabdian T*, Dami A*, Payen E*, Farahpour N, Isabelle P, Moisan G. (2025). Differences in lower limb kinematics and kinetics between individuals with posterior tibial tendon dysfunction and healthy controls during step-up and step-down tasks. *Clinical Biomechanics*. 186: 112726.
Published
Refereed?: Yes
20. Moisan G, Chicoine D, Griffiths IB, Robb K. (2025). Bridging the gap between foot orthoses research and clinical practice. *The Foot*. 63: 102177.
Published
Refereed?: Yes
21. Abbasi S, Farahpour N, Heidari B, Moisan G, Allard P. (2025). Center of foot pressure and free moment changes during gait in adolescents with right and left scoliosis. *Scientific Journal of Rehabilitation Medicine*. 14(4): 636-651.
Published
Refereed?: Yes
22. Payen E*, Acien M*, Isabelle P, Turcot K, Begon M, Abboud J, Moisan G. (2025). Impact of different foot orthoses on gait biomechanics in individuals with chronic metatarsalgia. *Gait and Posture*. 118: 17-24.
Published
Refereed?: Yes
23. Houle M, Moisan G, Marchand AA, Descarreaux M. (2025). Evaluation of gait pattern characteristics in adults over 50 years of age: a cross-sectional study. *Journal of Aging and Physical Activity*. 24: 1-11.
Published
Refereed?: Yes
24. Naeimvafa Z, Farahpour N, Moisan G. (2025). Spatiotemporal and lower limb joints kinematic variables during running in individuals with adolescent idiopathic scoliosis. *Scientific Journal of Rehabilitation Medicine*. tbd: tbd.
Submitted
Refereed?: Yes

25. Moisan G, Vadez G*, Daneau C, Lord M, Abboud J. (2025). Effect of a passive exoskeleton on trunk and lower limb biomechanics in elderly. *Physical & Occupational Therapy In Geriatrics*. tbd: tbd.
Published
Refereed?: Yes
26. *Dami A, *Payen Schalkens E, *Ghabdian T, Farahpour N, Isabelle P, Moisan G. (2025). Effects of custom-made foot orthoses on lower limb kinematics and kinetics during step-up and step-down tasks in individuals with progressive collapsing foot deformity. *Journal of Biomechanics*. 15(195): 113136.
Published
Refereed?: Yes
27. Moisan G, Dami A*, Ghabdian T*, Payen E*, Isabelle P, Farahpour N, McBride S. (2025). The relationship between the supination resistance test, lower limb biomechanics and the effects of foot orthoses on foot and ankle biomechanics in individuals with posterior tibialis tendon dysfunction during gait. *Gait and Posture*. 117: 300-305.
Published
Refereed?: Yes
28. Dami A*, Mahé-Duverger É, Acien M*, Blanchette V, Moisan G. (2025). Outcomes of prosthetic and orthotic use in individuals with a minor lower extremity amputation: A scoping review. *Prosthetics and Orthotics International*. Oct: 15.
Published
Refereed?: Yes, Open Access?: No
29. Chaverot R*, Effatparvar M, Acien M*, Sobczak S, Moisan G. (2025). Impact of foot orthoses wedges on foot and ankle kinematics: a cadaveric study. *The Foot*. tbd: tbd.
Submitted
Refereed?: Yes
30. Moisan G, Chicoine D, McBride S, Isabelle P, Gómez-Carrión Á, Farahpour N. (2024). First metatarsophalangeal joint dorsiflexion resistance in individuals with plantar fasciopathy. *The Foot*. 26(60): 102121.
Published
Refereed?: Yes
31. Farokhroo N, Farahpour N, Moisan G, Ghorbani-Amjad G, Majlesi M. (2024). Lower Limb Movement Patterns during a jump-landing maneuver in individuals with ACL reconstruction and healthy controls: Implications for Rehabilitation and Return to Sport. *Journal of Applied Biomechanics*. tbd: tbd.
Submitted
Refereed?: Yes
32. Gómez-Carrión A, Sánchez-Gómez R, Reguera-Medina JM, Martínez-Sebastián C, Márquez-Reina S, Coheña-Jiménez M, Moisan G. (2024). Effect of using a kinetic wedge during the hallux dorsiflexion resistance test. *BMC Musculoskeletal disorders*. 25: 409.
Published
Refereed?: Yes
33. Dami A*, Payen E*, Farahpour N, Robb K, Isabelle P, Moisan G. (2024). Medially wedged foot orthoses generate greater biomechanical effects than thin-flexible foot orthoses during a unilateral drop jump task on level and inclined surfaces. *Clinical Biomechanics*. 112: 106193.
Published
Refereed?: Yes
34. Acien M*, Dami A*, Blanchette V, Moisan G. (2024). Postural control imbalance in individuals with a minor lower extremity amputation: a scoping review protocol. *F1000Research*. 13: 309.
Published
Refereed?: Yes

35. Dami A*, Chicoine D, Payen E*, Bouchard M, Belzile E, Corbeil P, Moisan G. (2024). Lower limbs biomechanical deficits associated with stage 1 and 2 posterior tibialis tendon dysfunction during walking. *Gait and Posture*. 110: 10-16.
Published
Refereed?: Yes
36. Payen E*, Dami A*, Robb K, Farahpour N, Isabelle P, Moisan G. (2024). Exploring the relationship between the supination resistance test and the effects of foot orthoses on the foot and ankle biomechanics during walking. *Gait and Posture*. 113: 6-12.
Published
Refereed?: Yes
37. Moisan G., Ma C. (2024). Advances in Prosthetics and Orthotics. *BMC Musculoskeletal Disorders*. 12(25(1)): 135.
Published
Refereed?: Yes
38. Moisan G, Chicoine D, McBride S, Farahpour N, Isabelle P, Dagenais C*, Griffiths I. (2023). Supination resistance variations in foot and ankle musculoskeletal disorders: implications for diagnosis and customised interventions with wedged insoles. *Journal of Foot and Ankle Research*. 21(16(1)): 91.
Published
Refereed?: Yes
39. Tavera Pelaez AS*, Farahpour N, Griffiths IB, Moisan G. (2023). Thick shells and medially wedged posts increase foot orthoses medial longitudinal arch stiffness. *Journal of Foot and Ankle Research*. 16(1): 11.
Published
Refereed?: Yes, Open Access?: Yes
40. Beauchesne N, Wagenaar-Tison, A, Brousseau-Foley M, Moisan G, Cantin V, Blanchette V. (2023). Using a contralateral shoe lift to reduce gait deterioration during an offloading fast-walk setting in diabetic peripheral neuropathy: A Comparative Feasibility Study. *Diabetes Research and Clinical Practice*. 199: 110647.
Published
Refereed?: Yes
41. Moisan G, Griffiths IB, Chicoine D. (2023). Flat feet: Deformities or healthy anatomical variants?. *British Journal of Sports Medicine*. 57(24): 1536-1537.
Published
Refereed?: Yes
42. Moisan G, McBride S, Isabelle P, Chicoine D, Walha R. (2023). Intrarater and interrater reliability of the first metatarsophalangeal joint dorsiflexion resistance test. *Musculoskeletal Care*. 21(1): 102-107.
Published
Refereed?: Yes
43. Moisan G, Robb K, Mainville C, Blanchette V. (2022). Effects of foot orthoses on the biomechanics of the lower extremities in adults with and without musculoskeletal disorders during functional tasks: A systematic review. *Clinical Biomechanics*. 95: 105641.
Published
Refereed?: Yes
44. Miramand L, Moisan G, Richard V, McFadyen BJ, Turcot K. (2022). Whole-body movement strategies during sit-to-stand and stair ascent in individuals with a lower limb amputation: a systematic review. *Clinical Biomechanics*. 100: 105811.
Published
Refereed?: Yes

45. Moisan G, Miramand L, Younesian H, Turcot K. (2022). Balance control deficits in individuals with a trans-tibial amputation with and without visual input. *Prosthetics and Orthotics International*. 46(2): 134-139.
Published
Refereed?: Yes
46. Moisan G, McBride S, Isabelle P and Chicoine D. (2022). The Keystone Device as a clinical tool for measuring the supination resistance of the foot: a reliability study. *Musculoskeletal Care*. 20(3): 570-576.
Published
Refereed?: Yes
47. Moisan G, Mainville C, Descarreaux M, Cantin V. (2022). Lower limb biomechanics during drop jump landing on challenging surfaces in individuals with chronic ankle instability. *Journal of Athletic Training*. 57(11-12): 1039-1047.
Published
Refereed?: Yes
48. Moisan G, Bonnefoy-Mazure A, De Coulon G, Tabard-Fougère A, Armand S, Turcot K. (2022). Assessment of gait quality and efficiency after undergoing a single event multilevel surgery in children with cerebral palsy presenting an intoeing gait pattern. *Child's Nervous System*. 38: 1523-1530.
Published
Refereed?: Yes
49. Moisan G, Mainville C, Descarreaux M, Cantin V. (2021). Lower limb biomechanics in individuals with chronic ankle instability during gait: a case-control study. *Journal of Foot and Ankle Research*. 36(3): NA.
Published
Refereed?: Yes, Open Access?: Yes
50. Moisan G, Miramand L, Younesian H, Legrand T, Turcot K. (2021). Assessment of biomechanical deficits in individuals with a trans-tibial amputation during level gait using one-dimensional statistical parametric mapping. *Gait and Posture*. 87(24): 130-135.
Published
Refereed?: Yes
51. Moisan G, Chayasit P, Boonsinsukh R, Nester CJ, Hollands K. (2021). Postural control during quiet standing and voluntary stepping response tasks in individuals post-stroke. *Topics in Stroke Rehabilitation*. 29(7): 465-472.
Published
Refereed?: Yes
52. Moisan G, Descarreaux M, Cantin V. (2020). The influence of footwear on walking biomechanics for individuals with chronic ankle instability. *PLoS ONE*. 15(9): e0239621.
Published
Refereed?: Yes, Open Access?: Yes
53. Chicoine D, Bouchard M, Laurendeau S, Moisan G, Belzile E, Corbeil P. (2020). Biomechanical effects of three types of foot orthoses in individuals with posterior tibialis tendon dysfunction. *Gait and Posture*. 83: 237-244.
Published
Refereed?: Yes
54. Moisan G, Descarreaux M, Cantin V. (2020). Biomechanical effects of foot orthoses with and without a lateral bar in individuals with cavus feet during walking. *PLoS ONE*. 16(3): e0248658.
Published
Refereed?: Yes

55. Moisan G, Mainville C, Descarreaux M, Cantin V. (2020). Kinematic, kinetic and electromyographic differences between young adults with and without chronic ankle instability during walking. *Journal of Electromyography and Kinesiology*. 51(April): 102399.
Published
Refereed?: Yes
56. Moisan G, Mainville C, Descarreaux M, Cantin V. (2020). Unilateral jump landing neuromechanics of individuals with chronic ankle instability. *Journal of Science and Medicine in Sport*. 23(5): 430-436.
Published
Refereed?: Yes
57. Moisan G, Mainville C, Descarreaux M, Cantin V. (2019). Effects of foot orthoses on walking and jump landing biomechanics of participants with chronic ankle instability. *Physical Therapy in Sport*. 40: 53-58.
Published
Refereed?: Yes

Book Chapters

1. Moisan G. (2022). Effets biomécaniques des orthèses plantaires lors de tâches fonctionnelles. Éditions Mons. *La Clinique du Coureur: La santé par la course à pied*. : 256-257.
Published, Éditions Mons, Canada

Conference Publications

1. *Payen E., *Acien M., Isabelle P-L., Abboud J., Moisan G. Chronic metatarsalgia: What happens to peak plantar pressure during walking?. Symposium: Challenges and perspectives of research in university health clinics, Trois-Rivières, Canada
Poster
Refereed?: Yes, Invited?: No
2. *Payen E., *Acien M., Isabelle P-L., Abboud J., Moisan G. Chronic metatarsalgia: What happens to peak plantar pressure during walking?. 30th Congress of the international Society of Biomechanics (ISB), Stockholm, Sweden
Poster
Refereed?: Yes, Invited?: No
3. *Acien, M., *Dami, A., Blanchette, V., & Moisan, G. Postural control imbalance in individuals with a minor lower extremity amputation: a scoping review. International Society for Prosthetics and Orthotics (ISPO) 20th World Congress, Stockholm, Sweden
Poster
Refereed?: Yes, Invited?: No
4. *Dami A., Mahé-Duverger É., *Acien M., Blanchette V., Moisan G. Biomechanical Outcomes of Prosthetic and Orthotic Utilisation in Individuals with a Minor Lower Extremity Amputation. 20th Congress of the International Society for Prosthetics and Orthotics, Stockholm, Sweden
Poster
Refereed?: Yes, Invited?: No
5. *Dami A., Mahé-Duverger É., *Acien M., Blanchette V., Moisan G. Les effets biomécaniques de l'utilisation de prothèses et d'orthèses chez des individus avec une amputation mineure du membre inférieur. AQSAP 2025 conference, Trois-Rivières, Canada
Poster
Refereed?: Yes, Invited?: No

6. *Acien, M., *Dami, A., Blanchette, V., Moisan, G. Revue de portée sur les déséquilibres posturaux des individus ayant subi une amputation mineure du membre inférieur. AQSAP 2025 conference, Trois-Rivières, Canada
Poster
Refereed?: Yes, Invited?: No
7. *Vadez G., *Payen E., Da Silva R., Beaulieu L-D., Masse-Alarie H., Moisan G., Abboud J. Motor Adaptation During Stair Ascent and Descent in Individuals with Chronic Primary Low Back Pain. 30th Congress of the international Society of Biomechanics (ISB), Stockholm, Sweden
Poster
Refereed?: Yes, Invited?: No
8. *Vadez G., *Payen E., Da Silva R., Beaulieu L-D., Masse-Alarie H., Moisan G., Abboud J. Adaptations motrices lors de la montée et descente d'un escalier chez les personnes atteintes de lombalgie chronique. UQTR scientific poster contest, Trois-Rivières, Canada
Poster
Refereed?: Yes, Invited?: No
9. *Acien, M., *Dami, A., Blanchette V., Isabelle, P-L., Moisan, G. Amputation partielle du pied: les orthèses plantaires peuvent-elles aider à retrouver l'équilibre? Un protocole de recherche. UQTR Scientific Poster contest, Trois-Rivières, Canada
Poster
Refereed?: Yes, Invited?: No
10. *Payen E., *Acien M., Isabelle P-L., Abboud J., Moisan G. Métatarsalgie chronique : son impact sur les pressions plantaires lors de la marche. AQSAP 2025 Conference, Trois-Rivières, Canada
Poster
Refereed?: Yes, Invited?: No
11. *Dami A., Mahé-Duverger É., *Acien M., Blanchette V., Moisan G. Orthèses, prothèses, et biomécanique de la marche avec une amputation partielle du pied : une revue de portée. UQTR Scientific poster contest, Trois-Rivières, Canada
Poster
Refereed?: Yes, Invited?: No
12. *Payen E., *Acien M., Isabelle P-L., Abboud J., Moisan G. Chronic metatarsalgia: What happens to peak plantar pressure during walking?. UQTR Scientific poster contest, Trois-Rivières, Canada
Poster
Refereed?: Yes, Invited?: No
13. *Dami A., *Payen E., Farahpour N., Robb K., Isabelle P-L., Moisan G. Biomechanical effects of foot orthoses during a unilateral drop jump task on level and inclined surfaces. 29th Congress of the European Society of Biomechanics,
Poster
Refereed?: Yes, Invited?: No
14. *Vadez G., *Payen E., Moisan G., Abboud J. Motor adaptations during stair ascent and descent in individuals with chronic low back pain. 5th Quebec Congress in Adaptation-Rehabilitation Research,
Poster
Refereed?: Yes, Invited?: No
15. Chaverot R*, Sobczak, Acien M, Moisan G. Effets biomécaniques des orthèses plantaires sur les structures anatomiques du pied : étude cadavérique. Colloque annuel du Comité étudiant du RISUQ,
Poster
Refereed?: Yes, Invited?: No

16. *Payen E., *Dami A., Robb K., Farahpour N., Isabelle P-L., Abboud J., Moisan G. Can the supination resistance test help determine the effects of foot orthoses on the foot and ankle biomechanics during walking?. 49th Congress of the Société de Biomécanique,
Poster
Refereed?: Yes, Invited?: No
17. Moisan G., *Dami A., *Payen E., Farahpour N., Isabelle P-L. Comparative analysis of lower limb biomechanics during unilateral jump landing on even and inclined surfaces. 29th Congress of the European Society of Biomechanics,
Poster
Refereed?: Yes, Invited?: No
18. *Dami A., *Payen E., Farahpour N., Robb K., Isabelle P-L., Moisan G. Effets biomécaniques de deux types d'orthèses plantaires lors de la réception unilatérale d'un saut sur des surfaces planes et inclinées. 5th Quebec Congress in Adaptation-Rehabilitation Research,
Poster
Refereed?: Yes, Invited?: No
19. *Dami A., Payen E., Farahpour N., Robb K., Isabelle P-L., Moisan G. Optimisation orthésique de la fonction biomécanique des membres inférieurs lors de réceptions unilatérales de sauts. UQTR Scientific poster contest,
Poster
Refereed?: Yes, Invited?: No
20. *Dami A., Chicoine D., *Payen E., Bouchard M., Belzile E., Corbeil P., Moisan G. Altérations cinématiques et cinétiques lors de la marche avec une dysfonction du tendon du muscle tibial postérieur. Quebec College of Podiatry Conference,
Poster
Refereed?: No, Invited?: Yes
21. *Payen E., *Dami A., Robb K., Farahpour N., Isabelle P-L., Abboud J., Moisan G. Quelles sont les effets des orthèses plantaires sur la biomécanique du pied et de la cheville durant la marche ?. UQTR Scientific poster contest,
Poster
Refereed?: Yes, Invited?: No
22. Payen E*, Dami A*, Robb K, Farahpour N, Isabelle P, Abboud J, Moisan G. Orthèses plantaires et test de résistance à la supination: Corrélation possible?. 49e Congrès de la Société de Biomécanique, Compiègne,
Poster
Refereed?: Yes, Invited?: No
23. *Chaverot R., Sobczak S., Moisan G. The biomechanical effects of foot orthoses on the anatomical structures of the foot: cadaveric study. UQTR Scientific poster contest,
Poster
Refereed?: Yes, Invited?: No
24. *Vadez G., *Payen E., Moisan G., Abboud J. Motor adaptations during stair ascent and descent in individuals with chronic low back pain. UQTR Scientific poster contest,
Poster
Refereed?: Yes, Invited?: No
25. *Payen E., *Dami A., Robb K., Farahpour N., Isabelle PL., Abboud J., Moisan G. Quelles sont les effets des orthèses plantaires sur la biomécanique du pied et de la cheville durant la marche ?. 5th Quebec Congress in Adaptation-Rehabilitation Research,
Poster
Refereed?: Yes, Invited?: No

26. Payen E., Abboud J., Moisan G. The effects of foot orthoses on plantar pressure in individuals with chronic forefoot pain. UQTR Scientific poster contest,
Poster
Refereed?: Yes, Invited?: No
27. Payen E., Abboud J., Moisan G. The effects of foot orthoses on plantar pressure in individuals with chronic forefoot pain. International Foot and Ankle Biomechanics Society conference,
Poster
Refereed?: Yes, Invited?: No
28. Dami A., Chicoine D., Payen E., Bouchard M., Belzile E., Corbeil P., Moisan G. Différences biomécaniques articulaires lors de la marche entre les stades 1 et 2 de la dysfonction du tendon du muscle tibial postérieur. REPAR-INTER 2023 Scientific Event,
Poster
Refereed?: Yes, Invited?: No
29. Dami A*, Cantin V, Moisan G. Biomécanique déficitaire lors de la marche avec une dysfonction du tendon du muscle tibial postérieur. Concours d'affiches scientifiques de l'UQTR, Trois-Rivières,
Poster
Refereed?: Yes, Invited?: No
30. Dami A*, Cantin V, Moisan G. Biomécanique de la marche avec une dysfonction du tendon du muscle tibial postérieur. 4e congrès québécois de recherche en adaptation-réadaptation, Sherbrooke, Canada
Poster
Refereed?: Yes, Invited?: No
31. D'Orazio A*, Moisan G. Le rôle des orthèses plantaires dans la prévention des ulcères plantaires diabétiques: Les évidences scientifiques. REPAR-INTER 2021 Scientific Event, Online, Canada
Poster
Refereed?: Yes, Invited?: No
32. Yip SP*, Moisan G. Les effets des semelles proprioceptives sur la stabilité posturale chez les personnes âgées. Concours d'affiches scientifiques de l'Université du Québec à Trois-Rivières, Trois-Rivières, Canada
Poster
Refereed?: Yes, Invited?: No
33. Yip SP*, Moisan G. Les effets des semelles proprioceptives sur la stabilité posturale chez les personnes âgées. REPAR-INTER 2021 Scientific Event, Online, Canada
Poster
Refereed?: Yes, Invited?: No
34. D'Orazio A*, Moisan G. Le rôle des orthèses plantaires dans la prévention des ulcères plantaires diabétiques: une revue narrative. Concours d'affiches scientifiques de l'Université du Québec à Trois-Rivières,
Poster
Refereed?: Yes, Invited?: No
35. Ouellet R*, Miramand L, Moisan G, Turcot K. Analysis of lower limb's biomechanical compensations during stair descent in individuals with unilateral transtibial amputation. Canadian Society for Biomechanics meeting, Montréal, Canada
Poster
Refereed?: Yes, Invited?: No
36. Chicoine D, Corbeil P, Bouchard M, Moisan G. Foot orthoses in the treatment of posterior tibialis tendon dysfunction. International foot and ankle biomechanics meeting,
Poster
Refereed?: Yes, Invited?: No

37. Chicoine D, Moisan G. Le traitement par l'orthèse plantaire de la dysfonction du tendon du muscle tibial postérieur : les évidences scientifiques. Concours d'affiches scientifiques de l'Université du Québec à Trois-Rivières, Trois-Rivières, Canada
Poster
Refereed?: Yes, Invited?: No
38. Moisan G, Descarreaux M, Cantin V. Effects of foot orthoses with a lateral bar on the biomechanics of the lower limb in individuals with cavus feet during walking. Footwear Biomechanics Symposium, Conference Date: 2021/7
Abstract
Refereed?: Yes, Invited?: No
39. Moisan G, Mainville C, Descarreaux M, Cantin V. Walking biomechanics differences between shod and barefoot walking for individuals with chronic ankle instability. Footwear Biomechanics Symposium, Kananaskis, Conference Date: 2019/7
Abstract
Refereed?: Yes, Invited?: No

Presentations

1. (2026). Effects of foot orthoses in those with posterior tibial tendon dysfunction. CHU Ste-Justine scientific day, Canada
Main Audience: Knowledge User
Invited?: Yes, Keynote?: Yes
2. Moisan G. (2025). Posterior tibialis tendon dysfunction and foot orthoses: State of knowledge. AOPQ & AQIPA Conference, Canada
Main Audience: Knowledge User
Invited?: Yes, Keynote?: Yes
3. Moisan G. (2025). Posterior tibialis tendon dysfunction and foot orthoses. Quebec Podiatrist Association Webinar, Canada
Main Audience: Knowledge User
Invited?: Yes, Keynote?: Yes
4. Moisan G. (2024). Effets biomécaniques des orthèses plantaires lors de tâches sportives. Research Day in podiatry, France
Main Audience: Knowledge User
Invited?: Yes, Keynote?: Yes
5. Moisan G. (2024). Quoi de neuf en podiatrie pour le praticien érudit. Quebec College of Podiatry conference, Canada
Main Audience: Knowledge User
Invited?: Yes, Keynote?: Yes

Student/Postdoctoral Supervision

Master's Thesis [n=4]

2023/9 - 2025/10 Guillaume Vadez, Université du Québec à Trois-Rivières
Co-Supervisor Thesis/Project Title: Motor adaptations when going up and down stairs in people with chronic low back pain
Present Position: Health professional

2023/9 - 2027/5
Principal Supervisor Robin Chaverot, Université du Québec à Trois-Rivières
Thesis/Project Title: Towards a greater understanding of the mechanism of action of foot orthoses
Present Position: MSc student

2023/1 - 2026/1
Co-Supervisor Jérôme Bouchard-Tremblay, Université du Québec à Chicoutimi
Thesis/Project Title: Impact of foot orthoses on postural control and gait in adult and elderly individuals with plantar fasciopathy: A feasibility study
Present Position: Health professional

2022/9 - 2025/9
Principal Supervisor Jeffrey Ayotte, Université du Québec à Trois-Rivières
Thesis/Project Title: Biomechanical factors associated to recurrent falling: a cross-sectional elderly population-based study
Present Position: Health professional

Doctorate [n=4]

2026/1 - 2029/12
Principal Supervisor Léa Tessiot, Université du Québec à Trois-Rivières
Thesis/Project Title: Foot orthoses therapy in the treatment of a posterior tibial tendon dysfunction
Present Position: Doctoral student

2023/9 - 2027/8
Principal Supervisor Maxime Acien, Université du Québec à Trois-Rivières
Thesis/Project Title: Biomechanics of individuals with a foot amputation during locomotion
Present Position: PhD student

2023/5 - 2027/4
Principal Supervisor Ahmed Dami, Université du Québec à Trois-Rivières
Thesis/Project Title: Toward a better treatment to optimize biomechanical function in individuals with a foot amputation
Present Position: PhD student

2022/9 - 2026/8
Principal Supervisor Eléna Payen, Université du Québec à Trois-Rivières
Thesis/Project Title: Development of optimal orthotic therapy in individuals with chronic metatarsalgia
Present Position: PhD student

Post-doctorate [n=2]

2025/9 - 2027/8
Principal Supervisor Andrian Kuch, Université du Québec à Trois-Rivières
Thesis/Project Title: Dose-response biomechanical effects of foot orthoses
Present Position: Postdoctoral fellow

2025/1 - 2026/12
Principal Supervisor Todégnon Assogba, Université du Québec à Trois-Rivières
Thesis/Project Title: Effects of foot orthoses on lower limb biomechanics in patients with plantar fasciopathy
Present Position: Postdoctoral fellow