



Canadian Institutes of  
Health Research

Natural Sciences and Engineering  
Research Council of Canada

Social Sciences and Humanities  
Research Council of Canada

Instituts de recherche en  
santé du Canada

Conseil de recherches en sciences  
naturelles et en génie du Canada

Conseil de recherches en  
sciences humaines du Canada

Canada



Protected when completed

This is a draft version only. Do not submit to any funding organization. Only the final version from the History page can be submitted.

---

## Mr. Gavin Thomas

Correspondence language: English

Date of Birth: 2/10

Canadian Residency Status: Canadian Citizen

## Contact Information

The primary information is denoted by (\*)



Canadian Institutes of  
Health Research

Natural Sciences and Engineering  
Research Council of Canada

Social Sciences and Humanities  
Research Council of Canada

Instituts de recherche en  
santé du Canada

Conseil de recherches en sciences  
naturelles et en génie du Canada

Conseil de recherches en  
sciences humaines du Canada



Protected when completed

This is a draft version only. Do not submit to any funding organization. Only the final version from the History page can be submitted.

## Mr. Gavin Thomas

---

### User Profile

Research Disciplines:

Areas of Research:

Fields of Application:

Research Specialization Keywords: Artificial Intelligence, Data Science

### Degrees

2025/7	Doctorate, Medical Doctorate, The University of Calgary Degree Status: In Progress
2023/9 - 2025/11	Master's Thesis, Master of Science, Neuroscience (Artificial Intelligence Focus), The University of Calgary Degree Status: Completed Supervisors: Seitz, Dallas \ Forkert, Nils
2019/9 - 2023/6	Bachelor's, Bachelor of Science, Kinesiology, The University of Calgary Degree Status: Completed

### Recognitions

2024/9	Alberta Graduate Excellence Scholarship (AGES) - 10,000 (Canadian dollar) The University of Calgary Prize / Award
2022/5 - 2022/8	Program for Undergraduate Research Experience (PURE) Award (2022) - 7,500 (Canadian dollar) The University of Calgary Prize / Award Research Disciplines: Kinesiology
2022/5	2021 Volunteer of the Year - 0 (Canadian dollar) Cerebral Palsy Alberta Honor
2022/3	Dr. Gary McPherson Leadership Scholarship - 2,000 (Canadian dollar) Government of Alberta Prize / Award

2022/3	Jason Lang Scholarship (2022) - 1,000 (Canadian dollar) The University of Calgary Prize / Award
2021/5 - 2021/8	Program for Undergraduate Research Experience (PURE) Award (2021) - 6,000 (Canadian dollar) The University of Calgary Prize / Award  Research Disciplines: Kinesiology
2021/3	Jason Lang Scholarship (2021) - 1,000 (Canadian dollar) The University of Calgary Prize / Award
2020/3 - 2022/3	Jason Lang Scholarship (2020) - 1,000 (Canadian dollar) The University of Calgary Prize / Award
2019/9	Alexander Rutherford Scholarship - 2,500 (Canadian dollar) Government of Alberta Prize / Award

## Employment

2023/5	Research Assistant Psychiatry, The University of Calgary
2024/9 - 2025/7	Program Coordinator Cerebral Palsy Association in Alberta
2021/6 - 2025/5	Cycling Coach/Employee Calgary Bicycle Track League
2022/5 - 2022/8	Undergraduate Researcher Kinesiology, The University of Calgary
2018/9 - 2021/9	Lifeguard/Swim Instructor Vecova Recreation Centre
2021/5 - 2021/8	Undergraduate Researcher Kinesiology, The University of Calgary

## Event Participation

Cyclist, Track and road cyclist., Club, 2018/2 -  
I have been track and road cycling racing since 2018. Year-round training balancing elite athletics with academic pursuits. Track cycling (2018-2020). Road Cycling (2021-present): Cat 1 cyclist, member of the Manteo cycling team/club.

## Community and Volunteer Activities

- 2023/3 Club Founder, Cerebral Palsy Alberta Ambassadors Club  
In the winter of 2023, I founded the 'Cerebral Palsy Alberta Ambassadors Club' at the University of Calgary. **My Role:** Organizing fundraisers and helping to recruit volunteers. **Impact:** Through our dedicated efforts, we've successfully hosted events like a Spikeball tournament and a bake sale, raising a total of \$1,460 in support of Cerebral Palsy Alberta and its impactful programs.
- 2022/9 Logistics Administrator, Nutrition and Exercise Learning for Youth (NELY)  
I joined the Scholars Academy service project initiative 'Nutrition and Exercise Learning for Youth' (NELY) to address food insecurity and nutrition education gaps in Calgary's youth. **My Role:** Each week, with a small team, I lead sessions teaching kids how to prepare healthy meals. I also coordinate volunteers and tailor our approach to be engaging and culturally sensitive.
- 2019/9 Aqua Therapy Volunteer, Cerebral Palsy Alberta  
Since 2019, I have served as a volunteer swim aid with Cerebral Palsy Alberta's 'Splash Time Aqua Therapy' program, formerly known as 'Swim Without Limits'. **My Role:** In this role, I am paired one-on-one with a child diagnosed with cerebral palsy. Together, we engage in tailored swimming exercises designed to support their physical and emotional well-being.
- 2023/9 - 2025/6 Graduate Research In Progress (GRIP) Moderator, Hotchkiss Brain Institute  
In September 2023, I joined the Hotchkiss Brain Institute Trainee Organization (HBITO) during my graduate studies. **My Role:** As part of the education subcommittee, I help organize and moderate Graduate Research In Progress (GRIP) presentations, facilitating knowledge exchange among trainees.
- 2021/10 - 2023/1 Buddy Visits Volunteer, Cerebral Palsy Alberta  
I became an active participant in Cerebral Palsy Alberta's 'Buddy Visits' program in the fall of 2021. The 'Buddy Visits' program was designed to help alleviate the social isolation that some adult clients of Cerebral Palsy Alberta were going through. I was paired up with a man named G, who was an isolated adult living cerebral palsy. **My Role:** Each week, I engaged in telephone conversations, ranging from 30 minutes to an hour. Our discussions spanned a variety of topics, from hockey and our favourite foods to shared interests, fostering a sense of connection during challenging times.
- 2021/8 - 2022/12 Self-Initiated Fundraisers, Cerebral Palsy Alberta  
In response to the financial challenges faced by non-profits such as Cerebral Palsy Alberta during the COVID-19 pandemic, I harnessed my passion for cycling to support Cerebral Palsy Alberta. **My Role:** In summer 2021, I initiated a fundraiser where I cycled 100 km on the Calgary Velodrome, raising \$1,500. Later, in December of 2022, I undertook the challenge to cycle the elevation gain of Mount Everest (8,848 meters) through hill repeats on the virtual platform 'Zwift'. This endeavor garnered \$3,000. Both fundraisers were self-initiated.

## Knowledge and Technology Translation

2021/12      Guest on Podcast, Community Engagement  
 Group/Organization/Business Serviced: My Life Without Limits Podcast  
 Target Stakeholder: General Public  
 References / Citations / Web Sites: <https://podcasters.spotify.com/pod/show/mylifewithoutlimits/episodes/Episode-22---Doing-Something-Outside-Of-Yourself-e1cfjgp>  
 Activity Description: **My Life Without Limits Podcast - Episode 22.** In this episode, I was interviewed about a cycling fundraiser I was doing for children and adults with cerebral palsy.

## Other Memberships

2022/6 - 2023/6      Scholars Academy Member, The University of Calgary  
 The role of Scholars Academy is to extend the potential of undergraduate students with exceptional leadership capabilities, intellectual curiosity, and strong commitments to our local and global communities.

## Publications

### Journal Articles

1. Venus Joumaa, Faizan Syed, Jason J. Howard, Gavin Thomas, Latif Omerkhil, Sach Dabgotra, Isaac Obrigewitsch, Shuyue Liu, Robert J. Holash, Timothy R. Leonard, Walter Herzog. (2025). Maximal active force in skinned muscle fibres from children with cerebral palsy. Journal of Biomechanics. 186(112710)  
 Co-Author  
 Accepted  
 Refereed?: Yes  
 Number of Contributors: 12

### Thesis/Dissertation

1. Machine Learning Approaches for Cognitive Disorder Detection using Administrative Health Data. (2025). The University of Calgary. Master's Thesis. Supervisor: Dr. Dallas Seitz / Dr. Nils Daniel Forkert

### Online Resources

1. First Listed Author. Gavin Thomas. Clinical Learning through Augmented Reasoning & Art (CLARA.AI) AI-Based Visual Mnemonic Software. (2025).  
 Number of Contributors: 1

### Conference Publications

1. Mohammad ZI Chowdhury, Gavin Thomas, Eric E Smith, Susan E Bronskill, Julia G Kirkham, Zahinoor Ismail, Zahra Goodarzi, Pamela Roach, Vivian Ewa, Isabelle Vedel, Andrea Gruneir, Dallas Seitz. (2024). Estimating Potential Eligibility for Disease Modifying Therapies for Alzheimer's Disease Using Population-Based Data in Alberta, Canada. Alzheimer's & Dementia. Alzheimer's Association International Conference (AAIC) (e085900)  
 Conference Date: 2024/7  
 Poster  
 Published

2. Gavin Thomas, Eric Smith, Zahinoor Ismail, Zahra Goodarzi, Julia Kirkham, Dallas Seitz. (2024). Eligibility for Treatment with Disease Modifying Therapies for Alzheimer's Disease Among Individuals Assessed in a Tertiary Care Specialty Dementia Clinical Program in Calgary, Alberta. Canadian Geriatrics Journal. Canadian Geriatrics Society Annual Meeting (386-387)  
Conference Date: 2024/3  
Abstract  
First Listed Author  
Published  
Refereed?: Yes
3. Gavin Thomas, Venus Joumaa, Tim Leonard, Jason Howard, Robert Holash, Walter Herzog. (2023). An Investigation of Active Force in Skeletal Muscle Fibers from Children With Cerebral Palsy. Clinical Journal of Sport Medicine. CASEM Annual Conference  
Conference Date: 2023/3  
Poster  
Published