

Mikaela L. Stiver, PhD

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EDUCATION

Doctor of Philosophy, Rehabilitation Science (focus: Human Anatomy) 2016–2022
Rehabilitation Sciences Institute & Division of Anatomy *Degree Conferred:*
University of Toronto (Toronto, Ontario, Canada) *June 2022*

Topic: Three-Dimensional Architectural and Structural Properties of the Human Trapezius Muscle: Missing Links in Musculoskeletal Research

Master of Science, Psychology and Neuroscience 2014–2016
Department of Psychology *Degree Conferred:*
University of Guelph (Guelph, Ontario, Canada) *October 2016*

Topic: An Exploration of the Mechanisms of Object Memory Destabilization: Involvement of the Cholinergic and Ubiquitin Proteasome Systems

Bachelor of Science (Honours), Human Kinetics 2010–2014
College of Biological Science; minor in Neuroscience *Degree Conferred:*
University of Guelph (Guelph, Ontario, Canada) *June 2014*

PRESENT APPOINTMENTS

Assistant Professor January 2023
Division of Anatomical Sciences, Department of Anatomy and Cell Biology – Present
McGill University (Montréal, Québec, Canada)

Visiting Professor January 2023
Department of Molecular Medicine – Present
Università degli Studi di Pavia (Pavia, Italy)

PAST APPOINTMENTS

Faculty Lecturer August 2021 –
Division of Anatomical Sciences, Department of Anatomy and Cell Biology December 2022
McGill University

Assistant Professor (Short-Term Contract) September 2017 –
Chiropody Program (Post-Graduate Advanced Diploma Program) September 2018
The Michener Institute of Education @ the University Health Network

TEACHING AWARDS

Faculty Award for Teaching Innovation February 2023
Faculty of Medicine and Health Sciences, McGill University

Awarded to faculty in the Faculty of Medicine and Health Sciences in recognition of innovative teaching or educational practices that are impactful, learner-focused, and sustainable; received for “The integration of gamification/serious games in anatomy education”

TEACHING COURSES, WORKSHOPS, & CERTIFICATES

Anatomy Education Research Unconference

June 2023

University of Toronto (funded by the American Association for Anatomy [AAA])

“An unconference is an informal, participant-driven meeting where the attendees determine the agenda and discussion topics onsite [creating] a venue for critical analysis, self-reflection, and peer feedback while also facilitating a dialogue of formative feedback at the earliest stages of idea-generation/research design”

The Anatomy Education Research Unconference offered an opportunity to exchange ideas, strengthen support networks, and candidly discuss topics that affect anatomy education in an educational and empowering environment

Anatomy Education Research Institute

July 2022

Indiana University School of Medicine (funded by AAA)

Intensive four-day conference partnering leaders in medical education research with mentees interested in improving their teaching and educational research skills; involved active engagement in evidence-based teaching pedagogies, assessments, and educational research/inquiry

Advanced University Teaching Preparation (AUTP) Certificate

December 2019

Centre for Teaching Support & Innovation, University of Toronto

“The AUTP Certificate (2 years) seeks to prepare graduate students interested in pursuing a career in academic teaching for the demands and rewards of university teaching. The AUTP program provides graduate students with the opportunity to expand their understanding of teaching and learning and to practice teaching in a supportive environment”

Requirements: 10 workshops (2 hours per workshop), teaching practicum (microteaching sessions), teaching dossier review, & written reflection assessing the value and impact of the overall AUTP certificate program

Graduate Student Teaching Development Certificate

April 2016

Graduate Student Teaching Development Program, University of Guelph

“The Graduate Student Teaching Development Program at the University of Guelph offers graduate students the opportunity to explore teaching and learning questions through workshops and through the annual Graduate Student University Teaching Conference”

Requirements: 12 hours of participatory workshops and/or conferences

Undergraduate Teaching: Theory & Practice (Graduate-level Course)

Winter 2015

University of Guelph

This course emphasized critical examination and reflection upon teaching and learning issues and research in higher education. Assignments encouraged the development and practical application of pedagogical skills and strategies that are appropriate within the context of a wide range of disciplinary backgrounds.

GRANTS, FELLOWSHIPS, & SCHOLARSHIPS

Innovations Program Grant (\$50,000 USD)

December 2021

American Association for Anatomy (AAA); Co-PI (with Dr. Melissa Carroll)

This grant is supporting the development, implementation, and growth of the Global Neuroanatomy Network: an online resource repository and community of practice for neuroanatomy educators around the world. This project constitutes an extensive international collaboration, involving 23 anatomists, scholars, clinicians, and educators from 11 countries and 22 institutions across 5 continents

- Carleton and Marguerite Smith Medical Research Fellowship (\$27,000 CAD)** August 2020
 Division of Anatomy, University of Toronto
 Awarded to a graduate student who demonstrates interest in preparing for a future academic career in the field of anatomy or neuroanatomy and have committed to gaining experience in teaching anatomy during their graduate studies
- Michael Smith Foreign Study Supplement (\$6,000 CAD)** December 2018
 Canadian Institutes of Health Research (CIHR)
 Awarded to master's or doctoral students who currently hold federal tri-council funding to support an international research placement → 3-month placement at the University of Auckland in Auckland, New Zealand
- Vanier Canada Graduate Scholarship (\$166,667 CAD)** May 2017
 Canadian Institutes of Health Research (CIHR)
 The Vanier CGS program aims to attract and retain world-class doctoral students by supporting students who demonstrate leadership skills, academic excellence, and research potential as judged by a national selection committee

HONOURS & AWARDS

- Student / Postdoctoral Travel Award (\$400 USD & \$250 USD)** April 2022 & April 2019
 American Association for Anatomy
 Awarded to help defray costs associated with travel for student and postdoctoral members
- School of Graduate Studies Conference Grant (\$1,290 CAD)** December 2019
 University of Toronto
 Awarded to help defray costs associated with conference travel during graduate studies
- Travel Award for the 2019 International Federation of Associations of Anatomists Congress (\$2,000 USD)** August 2019
 American Association for Anatomy
 Awarded to 10 members to represent the society and present their research at the 2019 International Federation of Associations of Anatomists Congress
- Early Career Award (\$250 USD)** June 2019
 American Association of Clinical Anatomists
 Awarded to 8 early career members for research merit as judged by a blinded committee
- Top 7-Minute Presentation Award (\$300 CAD)** May 2019
 Rehabilitation Sciences Institute, University of Toronto
 Awarded at the 2019 Rehabilitation Sciences Institute Research Day to the graduate student with the best 7-minute oral presentation as determined by a blinded selection committee
- Sandy C. Marks Jr. Student Poster Presentation Award (\$600 USD)** July 2018
 American Association of Clinical Anatomists
 Awarded for the best Basic Science poster, entitled "Parsing Out the Relationship Between Contractile and Connective Elements in the Human Trapezius"
- Outstanding Community Service Award (\$100 CAD)** July 2018
 Rehabilitation Sciences Institute, University of Toronto
 Awarded at the 2018 Rehabilitation Sciences Institute Research Day in recognition of lasting and meaningful contributions to the community at large & an enthusiasm and passion for helping others

TEACHING EXPERIENCE

¹ Course Coordinator & Instructor; ² Course Instructor; ³ Anatomy Component Lead; ⁴ Laboratory Demonstrator; ⁵ Lecturer
(Experience as a Graduate Teaching Assistant not included — available upon request)

NOTE: I was on a leave of absence from May 13, 2024 – July 29, 2024 (inclusive)

Faculty of Science (Undergraduate) Courses, McGill University

- ANAT 316: Clinical Human Visceral Anatomy** ¹ Winter 2024
~175 students; U2 PT, OT, Kinesiology, Physiology
- Regional approach [thorax, head & neck, abdomen, pelvis]
 - Prosection-based cadaveric anatomy labs
- ANAT 396: Undergraduate Research Project** ² Winter 2024
1 student / semester; U2 / U3 Anatomy and Cell Biology ² Winter 2023
- Anatomy education research projects culminating in a final report and preparation of a poster presentation and/or manuscript for publication ² Fall 2022
- ANAT 514: Advanced Human Anatomy Lab** ² Winter 2024
~20–25 students; U3 Anatomy and Cell Biology ⁵ Winter 2023
- Intensive, regional dissection project completed in groups (3–4 students) ⁵ Winter 2022
 - Development of a complementary educational tool or resource
- ANAT 323: Clinical Neuroanatomy** ¹ Fall 2024
~75–80 students; U3 PT, OT + elective students (e.g., Kinesiology) ¹ Fall 2023
- Focus on central nervous system and cranial nerves with clinical application ¹ Fall 2022
 - Some prosection labs + directed case-based learning via clinical vignettes ¹ Fall 2021
- ANAT 314: Human Musculoskeletal Anatomy** ¹ Winter 2023
~90–100 students; U2 Anatomy and Cell Biology ² Winter 2022
- Regional approach [lower extremity, axial, upper extremity]
 - Prosection-based cadaveric anatomy labs

Faculty of Medicine and Health Sciences-Funded Programs, McGill University

- Anatomy Prosection Program** ¹ Summer 2023
~25–30 students; 1st- or 2nd-year PT / OT, Year 1 or 2 Medicine ¹ Summer 2022
- Students create detailed prosections under the mentorship and supervision of faculty from the Division of Anatomical Sciences (*co-coordinated by 5*
 - 45 hours of dissection per student *faculty members*)

School of Medicine, Faculty of Medicine and Health Sciences Courses, McGill University

- INDS 426: Anatomy for Surgeons** ¹ Winter 2024
~25–35 students; Year 4 Medicine (MDCM) [Basic Science Selective Course] ¹ Winter 2023
- 80+ hours of individual cadaveric dissection [head / neck, trunk, limbs streams] ⁴ Winter 2022
 - Emphasis on anatomical review and practicing surgical approaches
 - Grand rounds-style group presentation with imaging and anatomical variation

INDS 112: Fundamentals of Medicine and Dentistry – Respiration	3,4 Fall 2024
~250 students; Year 1 Medicine (MDCM), Year 1 Dentistry (DMD)	3,4 Fall 2023
<ul style="list-style-type: none"> Gross anatomy and embryology lectures on the respiratory system Dissection-based cadaveric anatomy labs (4–5 students / donor) 	3,4 Fall 2022 4 Fall 2021
INDS 113: Fundamentals of Medicine and Dentistry – Circulation	4 Fall 2023
~250 students; Year 1 Medicine (MDCM), Year 1 Dentistry (DMD)	4 Fall 2022
<ul style="list-style-type: none"> Dissection-based cadaveric anatomy labs (4–5 students / donor) 	4 Fall 2021
INDS 114: Fundamentals of Medicine and Dentistry – Digestion & Metabolism	4 Winter 2024
~250 students; Year 1 Medicine (MDCM), Year 1 Dentistry (DMD)	4 Winter 2023
<ul style="list-style-type: none"> Dissection-based cadaveric anatomy labs (4–5 students / donor) 	4,5 Winter 2022
INDS 115: Fundamentals of Medicine and Dentistry – Renal	3 Winter 2024
~250 students; Year 1 Medicine (MDCM), Year 1 Dentistry (DMD)	3 Winter 2023
<ul style="list-style-type: none"> Gross anatomy and embryology lectures on the urinary system 	
INDS 118: Fundamentals of Medicine and Dentistry – Movement	4,5 Winter 2023
~250 students; Year 1 Medicine (MDCM), Year 1 Dentistry (DMD)	4 Winter 2022
<ul style="list-style-type: none"> Embryology lectures on the musculoskeletal system (Winter 2023) Dissection-based cadaveric anatomy labs (4–5 students / donor) 	
INDS 211: Fundamentals of Medicine and Dentistry – Reproduction & Sexuality	4 Fall 2023
~250 students; Year 2 Medicine (MDCM), Year 2 Dentistry (DMD)	4 Fall 2022
<ul style="list-style-type: none"> Dissection-based cadaveric anatomy labs (4–5 students / donor) 	4 Fall 2021
INDS 212: Fundamentals of Medicine and Dentistry – Human Behaviour	3,4 Fall 2023
~250 students; Year 2 Medicine (MDCM), Year 2 Dentistry (DMD)	4 Fall 2022
<ul style="list-style-type: none"> Gross anatomy lectures on the nervous system and head & neck anatomy Combination of prosection- and dissection-based cadaveric anatomy labs (4–5 students / donor) 	4 Fall 2021

Faculty of Dental Medicine and Oral Health Sciences Courses, McGill University

DENT 217: Foundations of Dentistry	4 Fall 2023
~40 students; Year 2 Dentistry (DMD) + advanced standing DMD students	3,4 Fall 2022
<ul style="list-style-type: none"> Gross anatomy lectures on detailed head & neck anatomy for dental science Dissection-based cadaveric anatomy labs (4–5 students / donor) 	4 Fall 2021

Ingram School of Nursing Courses, McGill University

NUR1 236: Health & Physical Assessment / Anatomy 2	3 Winter 2024
~85 students; 2nd-year Nursing (Bachelor of Science)	3 Winter 2023
NUR1 339: Applied Health & Physical Assessment / Anatomy 2	3 Winter 2022
~140–150 students; 4th-year Nursing (Bachelor of Nursing [Integrated])	
NUR2 535: Health Assessment / Anatomy 2	
~20 students; Qualifying Year – Nursing (Master of Applied Science)	
<ul style="list-style-type: none"> Lectures on body donation and gross anatomy Q&A Prosection-based cadaveric anatomy labs [abdomen, pelvis] 	

NUR1 235: Health & Physical Assessment / Anatomy 1

~85 students; 2nd-year Nursing (Bachelor of Science)

³ Fall 2023³ Fall 2022**NUR1 338: Applied Health & Physical Assessment / Anatomy 1**

~140–150 students; 4th-year Nursing (Bachelor of Nursing [Integrated])

NUR2 534: Health Assessment / Anatomy 1

~20 students; Qualifying Year – Nursing (Master of Applied Science)

- Lectures on body donation and gross anatomy Q&A
- Prosection-based cadaveric anatomy labs [thorax]

School of Communication Sciences and Disorders Courses, McGill University**SCSD 638: Neurolinguistics**

~30–35 students; 2nd-year Communications Sciences & Disorders – Speech-Language Pathology (Master of Applied Science)

4,5 Winter 2024

4,5 Winter 2023

4,5 Winter 2022

- Neuroanatomy lecture emphasizing gross anatomy and language pathways
- Prosection-based cadaveric anatomy lab

Medical Physics Unit Courses, McGill University**MDPH 618: Anatomy and Physiology for Medical Physics**

~10 students; 1st-year Medical Radiation Physics (Master of Science)

4,5 Winter 2024

4,5 Winter 2023

- Introductory lecture on body donation and cadaveric anatomy
- Prosection-based cadaveric anatomy labs [neck, thorax, upper extremity, abdomen, pelvis, lower extremity]

Harvey Medical Course, Department of Molecular Medicine, Università degli Studi di Pavia**Structure of the Human Body: Topographic Anatomy**

~150–160 students; Year 1 Medicine (Master in Medicine and Surgery)

¹ April/May 2024¹ April/May 2023*

- Regional approach to musculoskeletal anatomy [axial, upper extremity, lower extremity, head & neck]
- 3D model-based labs with directed exploration and activities

(*delivered online)

Structure of the Human Body: Neuroanatomy

~150–160 students; Year 1 Medicine (Master in Medicine and Surgery)

¹ Jan/Feb 2024*¹ Jan/Feb 2023

- Structural and functional approach, focusing on central nervous system and cranial nerves

(*delivered online)

Chiropody Program, Michener Institute of Education @ the University Health Network**APCH 110: Lower Extremity Anatomy Dissection**

~45 students; 1st-year Chiropody (Post-Graduate Advanced Diploma)

² Fall 2018² Fall 2017

- Dissection-based cadaveric anatomy labs, focusing on clinically relevant lower extremity anatomy alongside 3 licensed chiropodists

INVITED TALKS

Stiver ML, Sachsenmeier C, Elzie C (2024, May). *Get your game on! Developing Game-based Learning for Student Engagement*. Second in a three-part webinar series on game-based learning hosted by the American Association for Anatomy.

Stiver ML (2024, April). *Game On! Exploring Game-based Learning in Anatomy Education*. First in a three-part webinar series on game-based learning hosted by the American Association for Anatomy.

Stiver ML (2023, January). *Developing a Purposeful Online Presence as an Early Career Academic*. Invited speaker in a series of interactive online talks and workshops hosted by Early Career Anatomists (organization based in the UK & Ireland).

Stiver ML (2022, August). *Putting the 'fun' back in anatomy fundamental with tabletop serious games*. Federative International Program for Anatomy Education (FIPAE) Symposium: Anatomy Visualized. Invited symposium presentation at the 20th Congress of the International Federation of Associations of Anatomists, Virtual Meeting.

Stiver ML (2021, April). *#SocialMedia: Personal Branding & Professionalism*. Career Central Talk. Invited 'on-demand' presentation at the American Association for Anatomy Annual Meeting at Experimental Biology 2021, Virtual Meeting.

Stiver ML (2021, January). *Anatomical and structural properties of the human trapezius muscle: preliminary insights into myofascial pain*. Invited talk at the Temerty Faculty of Medicine Rehabilitation Sciences Sector Leadership Research Rounds.

Stiver ML (2019, November). *One Fascicle at a Time: Measuring and Modelling Skeletal Muscle Architecture*. Invited research talk at the Auckland Bioengineering Institute, University of Auckland, Auckland, New Zealand.

WORKSHOPS

Sachsenmeier C, Elzie C, Grachan J, **Stiver ML** (2024, June). *Cards Against Anatomy: Designing Analog Games for Anatomy Education*. Symposium accepted for the Anatomy Connected 2025 in Portland, OR, USA.

Cosimini M, Edwards S, Grachan J, **Stiver ML** (2024, June). *Method to your Mechanics: Design and Integration of Games for Health Professions Education*. Focus Session at the 28th Annual Conference of the International Association of Medical Science Educators in Minneapolis, MN, USA.

Stiver ML (2023, December). Invited Roundtable Leader for "Beyond Grading: Navigating New Horizons in Assessment" Symposium. Topic: *Gamification in Anatomy*. Hosted by Teaching and Learning Services (TLS) at McGill University, Montréal, QC, Canada.

Cosimini M, Edwards S, **Stiver ML**, Francis E, Gantwerker E, Chan TM, Peermohamed S, DiMarco C. (2023, April). *Serious Games for Health Professions Education*. Workshop at the International Congress on Academic Medicine (ICAM) 2023 in Québec City, QC, Canada.

RESEARCH ACTIVITIES

Current

- 1) Examining the use of eponyms among anatomy educators and clinicians (collaboration with Dr. Charys Martin at Western University) and developing a serious game aimed at healthcare students and clinicians to teach the history of eponyms and encourage the adoption of descriptive terminology 2023 – Present
- 2) Investigating efficacy of templates and guided drawings for consolidating structural relationships in musculoskeletal anatomy in collaboration with medical students, including thematic analysis of student perceptions. Plans to incorporate clinical correlates and diagnostic imaging in future iterations 2023 – Present
- 3) Exploring the development and implementation of serious games in various post-secondary education contexts (e.g., anatomy education, medical education) in collaboration with researchers, clinicians (MD, PA), & students in Canada, USA, UK, and Singapore 2022 – Present
- 4) Developing and evaluating a global online community of practice for neuroanatomy educators ([The Global Neuroanatomy Network](#)) to share, access, and discuss peer-reviewed clinical cases and teaching resources in collaboration with researchers and clinicians in 11 countries (5 continents). 2021 – Present

Past

- 1) Reflecting on diverse and contemporary approaches to anatomy outreach programs. Collaboration with members of the American Association of Clinical Anatomists Brand Promotion & Outreach Committee 2021 – 2023
- 2) Documenting the 3D architectural and mechanical properties of the human trapezius muscle using cadaveric dissection, fiber bundle digitization and quantification, 3D modelling, and *in vivo* ultrasound 2D shear-wave elastography approaches. Included international collaboration with researchers and clinicians in Auckland, New Zealand 2016 – 2022 (PhD research)
- 3) Examining the accuracy and spread of extra- and intra-oral temporalis tendon injections for the treatment of temporal tendinopathies. Collaboration with two clinicians in Toronto and Hamilton 2018 – 2019
- 4) Investigating the neural and cellular underpinnings of memory destabilization in a rodent object memory paradigm, focusing on the involvement of muscarinic cholinergic receptors and intracellular cascades 2012 – 2016 (Undergraduate & MSc research)

RESEARCH TRAINEE SUPERVISION & MENTORSHIP

Mikaela-Angellika Andreadakis

Winter 2024

ANAT 396 student: Anatomy and Cell Biology Major, McGill University

Project: “Ending the Eponym Epidemic: Exploring Game-based Approaches to Encourage use of Descriptive Terminology”

Merrill Green

Winter 2023

ANAT 396 student: Anatomy and Cell Biology Major, McGill University

Project: "Identifying gaps in vestibular education: perspectives from McGill University medical students, residents, and affiliated physicians"**Melanie Meilayi**

Fall 2022

ANAT 396 student: Anatomy and Cell Biology Major, McGill University

Project: "Scoping Review of Tabletop Serious Games in Medical Education"**Ricky Ng**

Summer 2019

Non-degree research student: University of Toronto

Project: Dissection and 3D digitization of trapezius**Kaija Käärid**

Summer 2018

Summer research student: University of Toronto

Project: Dissection and 3D digitization of trapezius**PUBLICATIONS**

Cosimini M, Zarandi A, Edwards SL, **Stiver ML**, Chan V, Augustin O, Blain B, Chan TM. Print, Play and Learn: A Cross-Sectional Study of Card and Board Games for Medical Education from 1980 to 2024. *Simulation and Gaming*. (in review)

Edwards SL, Zarandi A, Cosimini M, Chan TM, Abudukebier M, **Stiver ML**. Analog serious games for medical education: a scoping review. *Academic Medicine*. (in press)

Edwards SL, Gantwerker E, Cosimini M, Christy AL, Kaur AW, Helms AK, **Stiver ML**, London Z. Game-based learning in neuroscience: Key terminology, literature survey, and how to guide to create a serious game. *Neurology® Education*. 2023; 2(4): p.e200103.

<https://doi.org/10.1212/NE9.0000000000200103>

Stiver ML, Mirjalili SA, Agur AMR. Measuring Shear-Wave Velocity in Adult Skeletal Muscle with Ultrasound 2D Shear-Wave Elastography: A Scoping Review. *Ultrasound in Medicine and Biology*. 2023; 49(6): 1353–1362. <https://doi.org/10.1016/j.ultrasmedbio.2023.02.005>

Barton MJ, McCombe C, Todorovic M, **Stiver ML**, McMonagle B. Herpes zoster isolated in the glossopharyngeal nerve: a case report and literature review. *Australian Journal of Otolaryngology*. 2022; 5: 7. <https://doi.org/10.21037/ajo-21-29>

Stiver ML, Bradshaw L, Breinhorst E, Agur AMR, Mirjalili SA. Three-dimensional muscle architecture of the infant and adult trapezius: a cadaveric pilot study. *Anatomy*. 2021; 15(1): 26–35. <https://doi.org/10.2399/ana.20.828627>

Stiver ML, Cloke JM, Nightingale N, Rizos J, Messer W, Winters BD. Linking muscarinic receptor activation to UPS-mediated object memory destabilization: implications for long-term memory modification and storage. *Neurobiology of Learning and Memory*. 2017; 145: 151–164.

<https://doi.org/10.1016/j.nlm.2017.10.007>

Zwicker JG, Miller SP, Grunau RE, Chau V, Brant R, Studholme C, Liu M, Synnes A, Poskitt KJ, **Stiver ML**, Tam EW. Smaller cerebellar growth and poorer neurodevelopmental outcomes in very preterm infants exposed to neonatal morphine. *The Journal of Pediatrics*. 2016; 172: 81–87. <https://doi.org/10.1016/j.jpeds.2015.12.024>

Stiver ML, Kamino D, Guo T, Thompson A, Duerden EG, Taylor MJ, Tam EW. Maternal postsecondary education associated with improved cerebellar growth after preterm birth. *Journal of Child Neurology*. 2015; 30(12): 1633–1639. <https://doi.org/10.1177/0883073815576790>

Stiver ML, Jacklin DL, Mitchnick K, Vivic N, Carlin J, O'Hara M, Winters BD. Cholinergic manipulations bidirectionally regulate object memory destabilization. *Learning & Memory*. 2015; 22(4): 203–214. <https://doi.org/10.1101/lm.037713.114>

PEER-REVIEWED ABSTRACTS

Carroll MA, Brown KM, Whitburn LY, Vollbrecht PJ, Meyer AJ, Krebs C, Cannon DM, Yohannan DG, Andrade JP, Giannaris EL, Pickering M, Vilburn MJ, Hidalgo ML, Baticulon RE, Border S, McMahon S, Flanagan T, Forlizzi VA, Salinas-Alvarez Y, **Stiver ML** (September 2024). *The Global Neuroanatomy Network (GNN): an Academic Repository for Educators Worldwide*. Accepted for presentation at the 21st Congress of the International Federation of Associations of Anatomists, in conjunction with the 74th Annual Meeting of the Korean Association of Anatomists, in Gwangju, Korea. [Oral Presentation]

Brown KM, Vollbrecht PJ, Carroll MA, **Stiver ML** (June 2024). *The Global Neuroanatomy Network (GNN): An innovative solution for the exchange of knowledge, expertise, and resources in neuroanatomy education*. Presented at the 28th Annual Conference of the International Association of Medical Science Educators in Minneapolis, MN, USA. [Oral Presentation]

Brown KM, Vollbrecht PJ, Carroll MA, **Stiver ML** (May 2024). *The Global Neuroanatomy Network (GNN): A New Online Community of Practice and Educational Repository*. Presented at the Association of American Medical Colleges (AAMC) Northeast Group on Educational Affairs 2024 Annual Conference in New York, NY, USA. [Poster]

Yohannan DG, Carroll MA, **Stiver ML** (April 2024). *Global Neuroanatomy Network: A Novel Platform to Share Teaching Resources in Neuroanatomy*. Presented at the 12th International Conference of the Society of Clinical Anatomists 2024 in Pimpri, Pune, India. [Oral Presentation]

Stiver ML, Cannon DM, Meyer AJ, Krebs C, Yohannan, DG, Andrade JP, Brown KM, Whitburn LY, Giannaris EL, Pickering M, Vilburn MJ, Hidalgo ML, Vollbrecht PJ, Baticulon RE, Larsen R, Border S, McMahon S, Flanagan T, Forlizzi VA, Salinas-Alvarez Y, Carroll MA (March 2024). *“Neuroanatomy educators, meet your global community”: inception and implementation of the Global Neuroanatomy Network*. Presented at Anatomy Connected 2024 in Toronto, ON, Canada. [Poster]

Whitburn LY, Meyer AJ, Carroll MA, **Stiver ML** (2023, November/December 2023). *The Global Neuroanatomy Network: An Online Community of Practice for Sharing Knowledge and Resources in Neuroanatomy Education*. Presented at the 2023 Asia Pacific International Congress of Anatomists & Australian and New Zealand Association of Clinical Anatomists Joint Conference in Dunedin, New Zealand. [Platform Presentation]

Forlizzi VA, Carroll MA, **Stiver ML** (2023, October). *La Red Mundial de Neuroanatomía (GNN): una comunidad de práctica en línea para compartir conocimientos, experiencias y recursos en la enseñanza de la neuroanatomía. (The Global Neuroanatomy Network: an online community of practice for sharing knowledge, experience, and resources in neuroanatomy education)*. Presented at the Argentine Association of Anatomists Annual Meeting in Buenos Aires, Argentina. [Poster]

Vilburn MJ, Brown K, Carroll, MA, **Stiver ML** (2023, July). *The Global Neuroanatomy Network: A Collaborative Community of Practice for Neuroanatomical Educators*. Presented at the Neuroscience Teaching Conference in Winston-Salem, NC, USA. [Poster]

Andrade JP, Carroll MA, **Stiver ML** (2023, May). *What is the Global Neuroanatomy Network?* Presented at the Portuguese Society of Anatomy Annual Meeting in Porto, Portugal. [Platform Presentation]

Border S, McMahon S, Cannon DM, Flanagan T, Pickering M, Carroll MA, **Stiver ML** (2023, April). *The Global Neuroanatomy Network: an online community of practice for sharing knowledge and experience in neuroanatomy education*. Presented at the Anatomical Society Winter Meeting in Nottingham, England, UK. [Oral Presentation]

Stiver ML, Ding L, Lalande A, Lau C, Lin W, Fejtek M, Jeon S, Leavitt S, Krebs C (2022, April). *Gut It Out: An Anatomy Card Game and Study Tool for Medical Students*. Accepted for presentation at the American Association for Anatomy Annual Meeting at Experimental Biology 2022, Philadelphia, PA, USA. [Poster] <https://doi.org/10.1096/fasebj.2022.36.S1.R4210>

Stiver ML, Agur AMR (2020, June). *Review of Musculoskeletal Ultrasound Shear Wave Elastography: Past, Present, and Future*. Presented at the 37th American Association of Clinical Anatomists Conference, Virtual Meeting. [ePoster] <https://doi.org/10.1002/ca.23694>

Stiver ML, Agur AMR (2020, May). *Applications of Musculoskeletal Ultrasound Shear Wave Elastography: A Scoping Review*. Presented at the 2020 Rehabilitation Sciences Institute Research Day, Virtual Meeting. [ePoster]

Stiver ML, Agur AMR, Mirjalili, SA (2020, April). *Mapping Tissue Properties in Trapezius with Ultrasound Shear Wave Elastography: A Pilot Study*. Presented at the American Association of Anatomists Annual Meeting at Experimental Biology 2020, Virtual Meeting. [ePoster] <https://doi.org/10.1096/fasebj.2020.34.s1.00714>

Stiver ML, Agur AMR, Mirjalili SA (2019, December). *Development and pilot testing of a novel ultrasound protocol for investigating chronic pain in trapezius*. Presented at the 16th Annual Conference of the Australian and New Zealand Association of Clinical Anatomists, Perth, WA, Australia. [Platform Presentation] <https://doi.org/10.1002/ca.23544>

Stiver ML, Agur AMR (2019, August). *Analysis of Myofascial Trigger Point-prone Regions in Trapezius: Novel Insights from Cadaveric Data*. Presented at the 19th Congress of the International Federation of Associations of Anatomists, London, UK. [Platform Presentation] <https://doi.org/10.1111/joa.13163>

Stiver ML, Bradshaw LR, Breinhorst EM, Agur AMR, Mirjalili SA (2019, June). *Trapezius Architecture in Infancy and Adulthood: Preliminary Developmental Insights*. Presented at the 36th Annual Meeting of the American Association of Clinical Anatomists, Tulsa, OK, USA. [Platform Presentation] <https://doi.org/10.1002/ca.23451>

Stiver ML, Bradshaw LR, Breinhorst EM, Agur AMR, Mirjalili SA (2019, May). *Morphometry of the Infant Versus Adult Trapezius: Developmental Implications*. Presented at the 2019 Rehabilitation Sciences Institute Research Day, University of Toronto, Toronto, ON, Canada. [Platform Presentation]

Stiver ML, Kumbhare D, Agur AMR (2019, May). *Musculoaponeurotic Junctions and Myofascial Trigger Points in the Human Trapezius*. Presented at the 45th Annual Department of Surgery Gallie Day, Toronto, ON, Canada. [Poster]

Stiver ML, Käärid K, Kumbhare D, Agur AMR (2019, April). *Comprehensive 3D Architecture of the Adult Human Trapezius: A Cadaveric Study*. Presented at the American Association of Anatomists Annual Meeting at Experimental Biology 2019, Orlando, FL, USA. [Platform Presentation] [10.1096/fasebj.2019.33.1_supplement.77.2](https://doi.org/10.1096/fasebj.2019.33.1_supplement.77.2)

Stiver ML, Kumbhare D, Agur AMR (2018, July). *Parsing out the Relationship between Contractile and Connective Elements in the Human Trapezius*. Presented at the 35th American Association of Clinical Anatomists Conference, Atlanta, GA, USA. [Poster] <https://doi.org/10.1002/ca.23260>

Stiver ML, Kumbhare D, Agur AMR (2018, May). *Parsing out the Relationship between Contractile and Connective Elements in the Human Trapezius*. Presented at the 2018 Rehabilitation Sciences Institute Research Day, University of Toronto, Toronto, ON, Canada. [Platform Presentation]

SERVICE & PROFESSIONAL ACTIVITIES

Departmental Committees

Undergraduate Departmental Curriculum Committee (Chair) Department of Anatomy and Cell Biology, McGill University	Sept 2022 – Present
Division of Anatomical Sciences Committee (Member) Department of Anatomy and Cell Biology, McGill University	Aug 2021 – Present
Anatomical Subdivision Committee (Member) Department of Anatomy and Cell Biology, McGill University	Aug 2021 – Present
Department of Anatomy and Cell Biology Committee (Member) Department of Anatomy and Cell Biology, McGill University	Aug 2021 – Present

Faculty or School-Level Committees & Activities

Undergraduate Medical Education [UGME] Accreditation Committee (Member-at-Large) School of Medicine, McGill University	Oct 2022 – Present
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Faculty Council (Anatomy and Cell Biology Representative) Faculty of Medicine and Health Sciences, McGill University	Sept 2022 – Present
Academic Committee (Anatomy and Cell Biology Representative) Faculty of Science, McGill University	Sept 2022 – Present
Biomedical Science Education Champions Committee (Anatomy and Cell Biology & Contract Academic Staff Representative) School of Biomedical Sciences, McGill University	Sept 2022 – Present
Putting It All Together (PIAT) Subcommittee (Course Representative) School of Medicine, McGill University	Sept 2022 – Present
Multiple Mini Interview Rater (Faculty Rater) School of Medicine, McGill University	Jan 2022 – Present
Contract Academic Staff (CAS) Ad Hoc Working Group (Anatomy and Cell Biology Representative) School of Biomedical Sciences, McGill University	Feb 2023 – Dec 2023

University-Level Committees

COVID-19 Return to Campus – Coordination Group (Anatomy and Cell Biology Representative) McGill University	Jan 2022 – March 2022
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Professional Organization Committees

Brand Promotion and Outreach Committee American Association of Clinical Anatomists	June 2019 – June 2023
Professional Development Committee American Association for Anatomy	Jan 2020 – April 2023
2023 Standalone Annual Meeting Working Group American Association for Anatomy	Feb 2022 – April 2022

Editorial Activities

Guest Co-Editor – Anatomical Sciences Education Special Issue <ul style="list-style-type: none"> Special issue highlighting the utilization of game-based learning in anatomy and related health sciences education across academic levels 	2024 – Present
Co-Editor in Chief – The Global Neuroanatomy Network (https://globalneuronetwork.org/) <ul style="list-style-type: none"> Coordinate and delegate peer review assignments for neuroanatomy clinical cases and teaching resources submitted to the Global Neuroanatomy Network 	2022 – Present
Ad Hoc Reviewer (on-going) <ul style="list-style-type: none"> Anatomical Sciences Education Journal of Anatomy JMIR Medical Education Academic Medicine 	

OTHER SCIENTIFIC CONTRIBUTIONS & LEADERSHIP

Medical & Scientific Illustration

Medical Illustrator – Histology Colouring Book 2022 – Present

Funded by an American Association for Anatomy 2021 Innovations Program Grant (<https://histologycoloringbook.com/>)

- Creating over 100 intricate illustrations suitable for colouring and labelling, depicting all aspects of histology (e.g., cells, tissues, organs)
- Project led by Dr. Karen Pinder (University of British Columbia) and Dr. Tamara Franz-Odenaal (Mount Saint Vincent University)

Freelance Illustrator for Peer-Reviewed Publications Ongoing

- <https://dx.doi.org/10.1136/heartjnl-2020-316668>
- <https://doi.org/10.21037/ajo-21-29>

Custom Anatomy Illustrations for Teaching Ongoing

- Examples available on my [website](#) (under CC BY-NC-SA 4.0 license)

Science Communication & Outreach

Foramina! A Game of Luck and Skull Released in 2022

Semi-serious game developed in collaboration with Dr. Zach London (University of Michigan Medical School) (<https://www.neurdgames.com/foramina>)

- Sold over 250 copies in 12 countries across 3 continents

Cranial Nerve Cards Released in 2021

Trading card game (e.g., Pokémon)-inspired study aid and neuroanatomy resource (<https://www.thegamecrafter.com/games/cranial-nerve-cards>)

- Sold over 430 copies students, educators, and neuroanatomy enthusiasts (+ distributed free digital copies to dozens more) in over 20 countries across 6 continents

Podcast Guest Various dates

Interviewed about teaching, research, outreach, and game-based learning

- Science Night! Podcast: [Episode #45](#)
- Lecture Breakers Podcast: [Episode #116](#)
- People of Pathology Podcast: [Episode #34](#)

PROFESSIONAL MEMBERSHIPS

International Association of Medical Science Educators 2023 – Present

Australian and New Zealand Association of Clinical Anatomists (ANZACA) 2019 – Present

American Association for Anatomy (AAA) 2018 – Present

- Formerly *American Association of Anatomists*

American Association of Clinical Anatomists (AACA) 2018 – 2023