

CONTACT

Date of Birth: November 19, 2001
Citizenship: Canadian
Languages: English (fluent), French (fluent), Hebrew (fluent)
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Webpage: <https://jordanlevett.github.io/webpage/>

**RESEARCH
INTERESTS**

Methodological: Systematic review, Meta-analysis, Retrospective and prospective clinical studies, Machine learning (computer vision and natural language processing)
Applications: Orthopaedic surgery; Neural interfaces; Medical device development; Surgical navigation; Clinical outcomes; Electronic Health Records

EDUCATION

2022-2026 **M.D.** *Medicinæ Doctorem*, University of Montreal
In progress
2021-2022 Medicine Preparatory Qualifying Year, University of Montreal
2019-2021 **D.C.S.** Diploma of College Studies Health Science (200.B1), Vanier College.
Dean's Honor Roll (Global average: 97%; R score: 38.844)
2014-2019 **S.S.D.** Secondary School Diploma, Herzliah High School.
Dean's Honor Roll (Global average: 97%)

CERTIFICATES

TCPS 2 - CORE 2022 Course on Research Ethics based on the Tri-Council Policy Statement: Ethical Conduct for Research Involving Humans (TCPS 2: CORE 2022). (Certificate # 0001253459) Issued on 20 December, 2023.
BLS Provider Basic Life Support Provider, Heart and Stroke Foundation of Canada. Expires September 2023.
National Lifeguard National Lifeguard Certification, Canadian Red Cross. Expires June 2023.
COSMEC Course Canadian Orthopaedic Surgery Medical Education Course (COSMEC), University of Toronto (Toronto, Canada). Issued on May 17, 2022.

**AWARDS &
DISTINCTIONS**

2021 J.W. McConnell Entrance Scholarship, McGill University (CA\$3,000/year)
2021 Pre-University Diploma Program Scholar, Vanier College
2021 Microsoft Award, Regeneron International Science and Engineering Fair (US\$500)
2020-2021 Mitacs FRQNT College-level Research Internship Award, Fonds de recherche Nature et technologies Québec (CA\$5,000)

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| | 2019 | MILSET International Research Fair. Abu Dhabi, United Arab Emirates (CA\$2,500) |
| | 2019 | The Principal's Award for Outstanding Achievement and Exceptional Engagement |
| | 2019 | Certificate of Merit for Outstanding Overall Achievement. |
| | 2019 | The McGill Science Award (Promise in Science and Mathematics) |
| | 2019 | The Soryl Naymark Prize (Achievement in Science) |
| | 2019 | Francis-Boulva Recognition Award |
| | 2018 | Intel International Science & Engineering Fair (Pittsburgh, Pennsylvania) |
| | 2018 | McGill University Faculty of Medicine Award |
| | 2018 | McGill University Faculty of Mathematics and Statistics Award |
| | 2018 | Peter Lochtie Memorial Prize |
| | 2018 | Concordia University Department of Mathematics and Statistics Award |
| | 2017 | McGill University Faculty of Science Award |
| | 2017 | Concordia University Faculty of Arts and Science Entrance Bursary |
| | 2017-2019 | Super expo-sciences Hydro Québec Experimentation & Design Award |
| | 2014-2018 | Gold Student Life Achievement Medal |
| RESEARCH BURSARIES | 2020-2021 | Mitacs FRQNT College-level Research Internship Award, Fonds de recherche Nature et technologies Québec (CA\$5,000) |
| EXPERIENCE | 2023- | Founder & Co-Director at Canadian Orthopaedic Surgery Student Network (COSSNET). Serving as an affiliate partner society of the Canadian Orthopaedic Association (COA), COSSNET is the first student-led national initiative in Canada, dedicated to advocating for musculoskeletal health and offering resources to over 350 students interested in pursuing orthopaedics. Montreal, Canada. |
| | 2022- | Research Co-Lead at Surgery Interest Group of University of Montreal (GICUM). Montreal, Canada. |
| | 2022-2023 | InciSioN (International Student Surgical Network), Internal Affairs. International. |
| | 2020-2021 | Teaching Assistant for Mechanics (203-NYA-05) and Electricity & Magnetism (203-NYB-05), Vanier College. Montreal, Canada. |
| | 2020-2021 | Journal Editor and Writer for SIGMA: The Vanier Science Journal. Montreal, Canada. |

PUBLICATIONS

- [1] **Levett JJ**, Elkaim LM, Niazi F, Weber MH, Iorio-Morin C, Bonizzato M, Weil AG. Invasive Brain Computer Interface for Motor Restoration in Spinal Cord Injury: A Systematic Review. *Neuromodulation*. 2023
- [2] Niazi F, Elkaim LM, Khomami N, **Levett JJ**, Weil AG, Hodaie M, Alotaibi NM. Microvascular decompression and trigeminal neuralgia: patient sentiment analysis using natural language processing. *World Neurosurg*. 2023.
- [3] **Levett JJ**, Elkaim LM, Alotaibi NM, Weber MH, Dea N, Abd-El-Barr MM. Publication Retraction in Spine Surgery: A Systematic Review. *Euro Spine J*. 2023.
- [4] **Levett JJ**, Elkaim LM, Weber MH, Yuh S, Lasry O, Alotaibi NM, Georgiopoulos M, Berven SH, Weil AG. A twitter analysis of patient and family experience in pediatric spine surgery. *Child's Nerv Syst*. 2023.
- [5] Elkaim LM, **Levett JJ**, Niazi F, Alvi MA, Shlobin NA, Linzey JR, Robertson F, Bokhari R, Alotaibi NM, Lasry O. Cervical Myelopathy and Social Media: Mixed Methods Analysis. *J Med Internet Res*. 2023;25:e42097.
- [6] Alvi MA, Elkaim LM, **Levett JJ**, Pando A, Roy S, Samuel N, NM Alotaibi, Zadeh G. Current Landscape of Social Media Use Pertaining to Glioblastoma by Various Stakeholders. *Neurooncol Adv*. 2023;5(1):vdad039.
- [7] **Levett JJ**, Turcotte RE, Jung S, Antoniou J, Huk OL. Osteosarcoma Around a Ceramic-on-Ceramic Total Hip Arthroplasty. *Arthroplast Today*. 2023;19:101094.
- [8] Elkaim LM, Niazi F, **Levett JJ**, Bokhari R, Gorodetsky C, Brietbart S, Alotaibi F, Alluhaybi AA, Weil AG, Fallah A, Alotaibi NM, Ibrahim GM. Deep Brain Stimulation in Children and Youth: Perspectives of Patient and Caregivers Gleaned through Twitter. *Neurosurg Focus*. 2022;53(4), E11.

WORKING PAPERS

- [1] Levy BB, **Levett JJ**, Veroniki A, Perrier L, Luong D, Farkouh ME, Bayley MT, Simpson R, Munce SEP. Primary Prevention of Cardiovascular Disease for Adults with Disabilities: A Systematic Review and Network Meta-analysis. 2024. Under review.
- [2] Almann MA, Elkaim LM, **Levett JJ**, Alvi M, Li B, Mamdani M, Al-Omran M, Alotaibi NM. Public Perception of the Brain-Computer Interface: Insights from a Decade of Data on X. 2024. Under review.
- [3] **Levett JJ**, Georgiopoulos M, Martel S, Al Mugheiry W, Stavropoulos NA, Vega-Arroyo M, Santaguida C, Weber MH, Golan JD, Jarzem P, Demetriades AK, Ouellet JA, Klironomos G. Pharmaceutical Therapy of Degenerative Cervical Myelopathy: A Review of Current Evidence. Under review.
- [4] **Levett JJ**, Alnasser AM, Drager J, Pauyo T. Anterior Cruciate Ligament Injury Prevention on Social Media: A Cross-Sectional Analysis of Public Awareness and Engagement. Under Review.
- [5] **Levett JJ**, Alnasser AM, Barak U, Elkaim LM, Hoang T, Alotaibi NM, Guha D, Weil AG, Weber MH. Radiation Exposure and Dose Estimates of Robot-Guided Versus Freehand Spinal Fusion: A Meta-Analysis of Randomized Controlled Trials. 2023. Under review.
- [6] **Levett JJ**, Alatassi R, Huk OL, Antoniou J. IgA Nephropathy Impairing Metal Ion Clearance in a Patient with Bilateral Metal-on-Metal Hip Arthroplasty: A Case Report. 2023. Under review.

- [7] **Levett JJ**, Elkaim LM, Zukor DJ, Huk OL, Antoniou J. Perspectives Surrounding Robotic Total Hip Arthroplasty on Social Media: A Cross-sectional Analysis using Natural Language Processing. 2023. Under review.

PREPRINTS

- [1] **JJ Levett**, LM Elkaim, NM Alotaibi, O Lasry, MH Weber, AG Weil. Patient and Family Experience in Pediatric Spine Surgery: A Social Media Analysis. 2022.

RESEARCH PRESENTATIONS

- [1] **JJ Levett**, A Alnasser, U Barak, LM Elkaim, T Hoang, NM Alotaibi, D Guha, IL Moss, AG Weil, MH Weber. Meta-Analysis of Randomized Controlled Trials Comparing Radiation Exposure and Dose Estimates of Robot-Guided Versus Freehand Spinal Fusion. Annual American Academy of Orthopaedic Surgeons (AAOS) Meeting. San Francisco, CA. February 15, 2024.
- [2] **JJ Levett**, A Alnasser, U Barak, LM Elkaim, T Hoang, NM Alotaibi, D Guha, IL Moss, AG Weil, MH Weber. Radiation Exposure and Dose Estimates of Robot-Guided Versus Freehand Spinal Fusion: A Meta-Analysis of Randomized Controlled Trials. McGill University Division of Orthopaedic Surgery Research Night. October 23, 2023.
- [3] **JJ Levett**, LM Elkaim, F Niazi, MH Weber, C Ioro-Morin, M Bonizzato, AG Weil. Invasive Brain Computer Interface for Motor Restoration in Spinal Cord Injury: A Systematic Review. Canadian Spine Society. Québec, QC. March 1-4, 2023.
- [4] **JJ Levett**, LM Elkaim, NM Alotaibi, MH Weber, MM Abd-El-Barr, N Dea. Publication Retraction in Spine Surgery: A Systematic Review. Canadian Spine Society. Québec, QC. March 1-4, 2023.
- [5] **JJ Levett**, LM Elkaim, F Niazi, NA Shlobin, M Bonizzato, MH Weber, AG Weil. Une revue systématique des interfaces cerveau-ordinateur pour le traitement des lésions médullaires. Congrès annuel de l'Association de neurochirurgie du Québec. Québec, QC. November 4, 2022.
- [6] F Niazi, **JJ Levett**, LM Elkaim, NM Alotaibi, O Lasry, M Hodaie. Décompression microvasculaire pour la névralgie du trijumeau : l'analyse des sentiments des patients à l'aide du traitement automatique du langage. Congrès annuel de l'Association de neurochirurgie du Québec. Québec, QC. November 4, 2022.
- [7] **JJ Levett**, LM Elkaim, F Niazi, NA Shlobin, M Bonizzato, MH Weber, AG Weil. Brain computer interface for spinal cord injury in human and animal models: a systematic review. McGill Neurosurgery Research Day. Montreal, QC. June 17, 2022.
- [8] LM Elkaim, **JJ Levett**, F Niazi, R Bokhari, O Lasry, NM Alotaibi. Cervical myelopathy and social media: a mixed methods analysis. McGill Neurosurgery Research Day. Montreal, QC. June 17, 2022.
- [9] F Niazi, N Mehdy, Z Khomami, **JJ Levett**, LM Elkaim. An analysis of Twitter use related to trigeminal neuralgia. McGill Neurosurgery Research Day. Montreal, QC. June 17, 2022.
- [10] BB Levy, **JJ Levett**, L Perrier, SEP Munce. Primary prevention of cardiovascular disease for adults with disabilities: a systematic review and meta-

analysis. University of Toronto Temerty Faculty of Medicine Research Day. Toronto, ON. February 22, 2022.

REVIEWER

Invited to contribute to peer-review of manuscripts submitted for publication to the following journals:

- *Neurosurgery*

MEDIA**Print (Newspapers, Magazines)**

- [1] The Suburban, [Sixteen Montreal area students stand out at Super Expo-sciences Québec Regional Science & Technology Fair](#), May 11, 2019.

Broadcast Media (TV, Radio)

- [1] Global News, [Montreal students heading to Abu Dhabi for science fair competition](#), April 26, 2019.

Internet

Vanier College Television, [Vanier Student Jordan Levett, 7 prize Winner at the Montreal Regional Science Fair](#), April 6, 2021.

LEADERSHIP

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| 2018-2022 | President of Volunteers, Friendship Circle of Montreal. Montreal, Canada. |
| 2021- | Canadian Medical Association Ambassador. Canada. |
| 2019-2020 | <i>Sign and Shine</i> . Co-founder of sign language course offered at Friendship Circle. |

SKILLS & HOBBIES

Sports: hockey, tennis & ski.
Software development: Python, HTML, CSS, JavaScript, C++, Cypher querying.
Magic: self-taught. Performed and instructed magic to children with special needs.