

Jessica Luo

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EDUCATION

University of British Columbia

Bachelor of Science, Major in Behavioural Neuroscience + Minor in Data Science

Dean's List – recognition of exceptional academic achievement

Vancouver, BC

2020 - 2025

EXPERIENCE

Clinical Research Assistant

May 2023 – August 2024

Pediatric Anesthesia Research Team, BC Children's Hospital, Vancouver, BC

- Recruited patients and their families in-person by explaining studies to obtain informed consent
- Followed protocols and procedures in operating rooms and anesthetic care units, ensuring research data was collected properly, and thinking critically if protocol deviations occurred
- Performed chart reviews of paper and electronic medical health records (Cerner PowerChart, CST Cerner)
- Interpreted and analyzed quantitative data using R, qualitative data using NVivo
- Scheduled and conducted semi-structured interviews for research purposes using Zoom
- Supported various projects (clinical drug trials, longitudinal survey studies, quality improvement) from initial to final stages (study conception; research ethics applications; REDCap project set-up; analysis using R, NVivo, and Excel; manuscript writing/preparation/submission)

Volunteer Research Assistant

November 2022 – March 2023

UBC Perinatal Anxiety Research Lab, Vancouver, BC

- Recruited potential research participants online, through social media and email, by informing them about study parameters and procedures
- Ensured participant questions were answered while following TCPS 2 protocols and guidelines
- Built relationships with organizations and tracked external partnerships by maintaining documentation of recruitment history through Excel

Research Mentee

October 2021 – March 2022

UBC Murphy Lab/Dynamic Circuits for Brain Health, Vancouver, BC

- Conducted online literature reviews of rodent neuroscience research papers
- Supported data collection of animal subjects and analysis using Python, Raspberry Pi and MATLAB
- Disseminated research findings with four other team members and presented our project at the UBC Multidisciplinary Undergraduate Research Conference

GRANTS & AWARDS

Evidence to Innovation Publication Support Award

2025

Project: Parental Perspectives on Pediatric Surgical Recovery: Narrative Analysis of Free-Text Comments from a Postoperative Survey

Evidence to Innovation Clinical Practice, Outcomes & Innovation Podcast Grant

2025

Project: Patient Outcomes and Quality of Electrocorticography in Epilepsy Surgery

Evidence to Innovation Clinical Practice, Outcomes & Innovation Podcast Grant

2024

Project: Genetic Differences in Pharmacodynamic Safety Endpoints with Propofol Anesthesia in Children

PUBLICATIONS

J. Luo, N. West & G.R. Lauder. (August 28, 2024). **myoActivation®, a Structured Assessment and Therapeutic Process for Adolescents With Myofascial Dysfunction and Chronic Low Back Pain: A Case Series.** *Cureus*. 16(8): e68029. doi:10.7759/cureus.68029

J. Luo, N. West, S. Pang, P.M. Page, N.K. Chadha, H. Gan, L.R. Correll, R. Ridgway, N. Broemling & M. Görges. (2024). **Parental Perspectives on Pediatric Surgical Recovery: Narrative Analysis of Free-text Comments from a Postoperative Survey.** *JMIR Perioper Med*. doi:10.2196/65198

N. West, J.D. Taylor, J. Luo, T. Newlove & Z. Brown. (January 2025). **Facilitated peer discussion to improve anesthesia resident wellness: an evaluation and pre-/post-intervention survey.** *Canadian Journal of Medical Education*. Accepted for publication. doi:10.36834/cmej.79340

PUBLICATIONS - FORTHCOMING

J. Luo, N. West, S. Pang, A. Golam, E. Adams, M. Görges, R.R. Carr, F. Miyanji & G.R. Lauder. **Perioperative intravenous lidocaine infusion therapy as an adjunct to multimodal analgesia for adolescent idiopathic scoliosis surgical correction: a double-blind randomized-controlled study.** *Pediatric Anesthesia*. In Review.

S. Pang, N. West, H. Zhao, J. Luo, N.K. Chadha, H. Gan & M. Görges. **Using perioperative patient- and parent-reported experience and outcome measures to identify pediatric post-surgical recovery trajectories: an observational cohort study.** *Anesthesia & Analgesia*. In Review.

J. Luo, N. Barker, J. Crawford, A. Singhal, L. Huh & K. Bailey. **Patient Outcomes and Quality of Electrocorticography in Epilepsy Surgery.** *Pediatric Anesthesia*. In progress.

G. R. Lauder, J. Luo & J. Nassaazi. **Early Life Trauma as a Trigger for Developmental Myofascial Dysfunction: A Case Report.** *Cureus*. In progress.

PRESENTATIONS – ORAL

J. Luo, N. West, S. Pang, S. Pang, P.M. Page, N.K. Chadha, H. Gan, N. Broemling & M. Görges. **Exploring Parental Perspectives on Pediatric Surgical Recovery: Insights from Qualitative Analysis of Free-text Comments in a Postoperative Survey.** *Office of Pediatric Surgical Evaluation and Innovation, Department of Surgery, Faculty of Medicine, Vancouver, 2024.*

J. Luo, N. West, S. Pang, J.M. Robillard, PM Page, NK Chadha, H. Gan, R Ridgway, N. Broemling & M. Görges. **Exploring Parental Perspectives on Pediatric Surgical Recovery: Insights from Qualitative Analysis of Free-text Comments in a Postoperative Survey.** *Evidence to Innovation (E2i) Research Day, Vancouver, 2024.*

J. Luo, S. Pang, N. West & M. Görges. **Exploring Parental Perspectives on Pediatric Surgical Recovery: Insights from Qualitative Analysis of Free-text Comments in a Postoperative Survey.** *Multidisciplinary Undergraduate Research Conference, Vancouver, 2024.*

J. Luo, S. Pang, N. West, H Tak, R Sreepada, Wood, M.D., Chadha, N.K., R. Ridgway, H. Gan & M. Görges. **Pediatric Pain Prediction: a study to gathering patient reported experiences and outcome measures to develop postoperative pain trajectory models.** *Summer Student Research Program, Vancouver, 2023.*

PRESENTATIONS – POSTER

J. Luo, N. Barker, J. Crawford, A. Singhal, L. Huh & K. Bailey. **Patient Outcomes and Quality of Electrocorticography in Epilepsy Surgery.** *Anesthesiology, Pharmacology & Therapeutics Research Day*, Vancouver BC, 2025.

J. Luo, N. Barker, J. Crawford, A. Singhal, L. Huh & K. Bailey. **Patient Outcomes and Quality of Electrocorticography in Epilepsy Surgery.** *Society of Pediatric Anesthesia – Annual Meeting*, Orlando FL, 2025.

M. Wake, N. West, J. Luo, N. Wang, J.D. Taylor, T. Newlove, Z. Brown. **The evaluation of facilitated peer discussions in promoting Better REsident Wellness (BREW): a semi-structured interview study.** *Multidisciplinary Undergraduate Research Conference*, UBC Vancouver, 2025.

J. Luo, N. Barker, J. Crawford, A. Singhal, L. Huh & K. Bailey. **Patient Outcomes and Quality of Electrococtography in Epilepsy Surgery.** *Evidence to Innovation (E2i) Fall Forum*, Vancouver BC, 2025.

M. Wake, N. West, J. Luo, N. Wang, J.D. Taylor, T. Newlove, Z. Brown. **The evaluation of facilitated peer discussions in promoting Better REsident Wellness (BREW): a semi-structured interview study.** *Evidence to Innovation (E2i) Fall Forum*, Vancouver BC, 2025.

N. West., J. Luo, S. Pang, M. Görges, E Adams, F Miyanji, R Carr & G. Lauder. **Perioperative Intravenous Lidocaine Therapy for Pain management in adolescent idiopathic scoliosis correction surgery: a double-blind randomized controlled trial.** *Canadian Pediatric Anesthesia Society Scientific Meeting*, Ottawa ON, 2024.

J. Luo, N. West, S. Pang, J.M. Robillard, PM Page, NK Chadha, H. Gan, R Ridgway, N. Broemling & M. Görges. **Exploring Parental Perspectives on Pediatric Surgical Recovery: Insights from Qualitative Analysis of Free-text Comments in a Postoperative Survey.** *International Anesthesia Research Society – Annual Meeting*, Seattle WA, 2024.

S Whyte, L. Moxham, J. Luo & M. Görges. **Age and Sex Differences in Pharmacodynamic Endpoints During the Induction of Anesthesia with Propofol in Children.** *International Anesthesia Research Society – Annual Meeting*, Seattle WA, 2024.

S. Pang, H. Tak, J. Luo, N. West, R. Sreepada, N.K. Chadha, H. Gan, & M. Görges. **Pediatric Pain Prediction: assessment of preoperative risk factors can be used to predict significant postoperative pain.** *International Anesthesia Research Society – Annual Meeting*, Seattle WA, 2024.

N. West, N. Wang, J. Luo, J.D. Taylor, & Z. Brown. **Investigating facilitated peer discussions in promoting Better REsident Wellness (BREW): a qualitative study.** *International Anesthesia Research Society – Annual Meeting*, Seattle WA, 2024.

J. Luo, N. West & G. Lauder **Myofascial Components of Adolescent Chronic Low Back Pain: Utilizing myoActivation® as a Structured Solution for Assessment and Management.** *Society of Pediatric Anesthesia - Annual Meeting*, Anaheim CA, 2024.

J. Luo, N. West, S. Pang, J.M. Robillard, P. Page, N.K. Chadha, H. Gan, R. Ridgway, N. Broemling & M. Görges. **Exploring Parental Perspectives on Pediatric Surgical Recovery: Insights from Qualitative Analysis of Free-text Comments in a Postoperative Survey.** *Anesthesiology, Pharmacology & Therapeutics Research Day*, Vancouver BC, 2024.

J. Luo, N. West & G. Lauder. **Myofascial Components of Adolescent Chronic Low Back Pain: Utilizing myoActivation® as a Structured Solution for Assessment and Management.** *Anesthesiology, Pharmacology & Therapeutics Research Day*, Vancouver BC, 2024.

PRESENTATIONS – POSTER (*continued*)

N. West, N. Wang, J. Luo, J.D. Taylor, & Z. Brown. **Investigating facilitated peer discussions in promoting Better Resident Wellness (BREW): a qualitative study.** *Anesthesiology, Pharmacology & Therapeutics Research Day*, Vancouver BC, 2024.

J. Luo, N. West & G. Lauder. **Myofascial Components of Adolescent Chronic Low Back Pain: Utilizing myoActivation® as a Structured Solution for Assessment and Management.** *Evidence to Innovation Fall Forum*, Vancouver BC, 2023.

J. Luo, N. West, J.D. Taylor, T. Newlove & Z. Brown. **A facilitated peer discussion program for improving anaesthesia resident wellness: a preliminary analysis of benefits and suggested modifications.** *Summer Student Research Program*, Vancouver BC, 2023.

S. Shehata, G. Gill, A. Sinecen, & J. Luo. **Investigating the Role of Oxytocin on vCA1 Neurons and Social Memory.** *Multidisciplinary Undergraduate Research Conference*, UBC Vancouver, 2022.

EXPERIENCE with VULNERABLE POPULATIONS

Family (Independent Pediatric Palliative Care) Volunteer

May 2024 - Present

Canuck Place Children's Hospice, Vancouver, BC

- Work alongside the clinical care team to enhance the quality of life of children with progressive, life-threatening conditions, as well as supporting their families
- Provide emotional support and keep children company during activities: school room, working with arts and crafts, and on community outings
- Provide mentorship, guidance, and support to new volunteers

Swim Coach

September 2021 – Present

Vancouver Pacific Swim Club, Vancouver, BC

- Taught swimming techniques to 100+ children of various ages and abilities by implementing methodologies adapted for either private, semi-private, or group learning environments
- Mentored all assistant coaches of the development program through weekly meetings, individualized goal setting, and evaluation of development
- Adapted curriculum for children who are neurodivergent (Autism Spectrum Disorder, Obsessive-Compulsive Disorder, Attention-Deficit Hyperactive Disorder, Tourette's Syndrome)

Distress Service Responder

July 2023 – September 2024

Crisis Centre BC, Vancouver, BC

- Providing 250+ hours of immediate crisis intervention, suicide de-escalation, emotional support, information dissemination and appropriate resource referrals
- Address the diverse needs of individuals in emotional or physical distress while ensuring their safety, confidentiality and well-being
- Maintain an up-to-date understanding of mental health supports throughout BC, Yukon and Canada

Physiotherapy/Exercise Volunteer

January 2023 – April 2023

UBC Purdy Pavilion Long Term Care - Vancouver Coastal Health, Vancouver, BC

- Helped physiotherapists to promote physical health by playing with patients, demonstrating exercises, and encouraging participation
- Assisted patients with chronic disabilities throughout the care home with care and sensitivity
- Supported healthcare staff by cleaning and maintaining recreation equipment

EXPERIENCE with VULNERABLE POPULATIONS (*continued*)

InfoWayfinding Program Volunteer

December 2022 – April 2023

UBC Hospital - Vancouver Coastal Health, Vancouver, BC

- Assisted patients and visitors with physical or cognitive disabilities through the hospital safely, in accordance with the guidelines set by Vancouver Coastal Health
- Socialized with patients, family members, and visitors before and after medical appointments
- Appropriately modified communication for children, adults, and/or seniors with disabilities

DTES Kitchen Volunteer

May 2021 – August 2021

Lookout Housing Society - Downtown Eastside, Vancouver, BC

- Assisted with meal preparation activities, such as organizing incoming donations and preparing food safely
- Connected with locals with food insecurity while ensuring fair distribution of groceries and meals

Swim Coach

July 2019 – April 2021

University of Victoria Pacific Coast Swimming, Victoria, BC

- Taught swimming techniques to 100+ children of various ages and abilities following the *Fundamentals Coach: Swimming 101* training program
- Sell, advertise and distribute club merchandise by tracking products and purchase information using Excel

CERTIFICATIONS

Tri-Council Policy Statement: Ethical Conduct for Research Involving Humans
Course on Research Ethics (TCPS 2: CORE)
Panel on Research Ethics

May 2023

Health Canada Division 5 – Drugs For Clinical Trials Involving Human Subjects
Collaborative Institutional Training Initiative (CITI) Program

May 2023

Good Clinical Practice (GCP)
CITI Program

May 2023

Transportation of Dangerous Goods TDG/IATA Course
CITI Program

May 2023

REFERENCES

Info available upon request