

Fateme Rajabiyazdi

Carleton University
 Faculty of Engineering and Design
 Department of Systems and Computer Engineering
 Email: rajabiyazdi@sce.carleton.ca
 Website: <https://carleton.ca/rajabiyazdi/>

Work Experience

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- Assistant Professor - Carleton University, Canada** Jan 2021–present
Department of Systems and Computer Engineering
- Postdoctoral Fellow - McGill University, Canada** Jan 2019–Dec 2020
Supervisor: Dr. Julio Fiore Project Leader: Dr. Liane Feldman
- Data Visualization Researcher - Alberta Health Services - W21C, Canada** 2015–2018
Project Leader: Dr. William Ghali
- Researcher - Pain Studies Lab, School of Interactive Arts & Technology, Canada** 2014–2015
Supervisor: Dr. Diane Gromala

Education

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- PhD in Computer Science - Information Visualization - University of Calgary** 2014–2018
Thesis: Exploring the Design of Visualizations to Facilitate Patient-Provider Communication (GPA: 4.0)
Thesis Awards: Nominated for university-level and for the field-specific awards by committee
Supervisors: Dr. Sheelagh Carpendale and Dr. Lora Oehlberg
Committee: Dr. Charles Perin (University of Victoria) and Dr. Diane Gromala (Simon Fraser University)
- Master in Computer Science - HCI - Australian National University** 2010–2012
Thesis: Design and Development of Interface for Different Tablet Sizes
Supervisors: Dr. Tom Gedeon and Dr. Duncan Stevenson
- Bachelor in Software Engineering - University of Tehran** 2006–2010

Grants**Awarded - PI**

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- G7. Carleton University Experiential Learning Fund** 2022-2023
EXPeriential-learning for ANalyzing Data (EXPAND) Program: Analyzing real-world datasets & developing data-driven solutions with community or organization partner collaborations
 Role: Principal-Investigator, Total: \$6,000
- G6. NRC Aging in Place Challenge program** 2022-2025
Evaluation and Adaptation of Assistive Technologies for Older Adults
 Role: Principal-Investigator (Academic), NRC PI: Dr. H el ene Fournier, Total: \$90,000
- G5. NSERC Discovery Grants Program** 2021-2026
Title: Exploring the design and development of patient data visualizations on shared displays
 Role: Principal-Investigator, Total: \$132,500

- G4. **NSERC Alliance Grants - OCE-VIP** 2021-2022
Qualitative Data Visualization Dashboard
 Role: Principal-Investigator, Total: \$60,000
- G3. **Scholarship of Teaching and Learning (SoTL) Grant** 2021-2022
Critical Reflections on Teaching Data Visualizations to Students with Engineering Backgrounds
 Role: Principal-Investigator, Total: \$5,000
- G2. **Career Ready Technation Canada** 2021
Design and Development of a Wearable Pain Tracker
 Role: Principal-Investigator, Total: \$5,900
- G1. **Carleton University I-CUREUS Grant** 2021-2022
Summer 2021, Fall 2021, Winter 2022
 Role: Principal-Investigator, Total: \$3,375

Awarded - Collaborator

- CIHR Planning and Dissemination Grant** 2019
Transforming Post-Fracture Acute Pain Management in Older Men/Women through mHealth Application
 Role: Collaborator - PI: Dr. Suzanne Morin
- CIHR Project Grant Fall** 2019
Opioid versus opioid-free analgesia after surgical discharge: a systematic review and meta-analysis
 Role: Collaborator - PI: Dr. Julio Fiore

Under Review - PI

- Gx. **NSERC Research Tools and Instruments** 2021
Multitouch Displays to Collaboratively Interact with Health Data
 Role: Principal-Investigator, Total request: \$140,000

Under Review - Co-PI

- Gx. **CIHR Fall Project Grant** 2022
The OPERa Study: A Multicenter Observational Prospective Cohort Study to Evaluate Determinants of Long-Term Quality of Life following Restorative Proctectomy for Rectal Cancer Treatment
 Role: Co-PI, PI: Dr. Marylise Boutros (McGill University - Jewish General Hospital)
- Gx. **NSERC Alliance Missions Grants** 2021
COVID-19 in the Urban Built Environment (CUBE) through Modeling, Simulation and Visualization
 Role: Co-PI, PI: Dr. Gabriel Wainer (Carleton University - Systems and Computer Engineering)
- Gx. **American Society of Colorectal Surgeons** 2021
Consensus Development on the Definition, Grading and Reporting of Colorectal Anastomotic Leak
 Role: Co-PI, PI: Dr. Patricia Sylla (Icahn School of Medicine at Mount Sinai)

Not Granted

- Gx. **NRC Aging in Place CIHR Institute of Aging program** 2021
Development of mobile health applications and visualizations for monitoring and communicating mental health conditions in older adults
 Role: Principal-Investigator (Academic), NRC PI: Dr. Hélène Fournier, Total request: \$492,400

Scholarship and Awards

Individual Service Excellence Award Nomination , Carleton University	2022
Co-op Employer of the Year Nomination , Carleton University	2021
Postdoctoral Scholarship , Fonds de la Recherche du Quebec Sante (FRQS), \$45,000	2020-2020
Computer Science Department Research Award , University of Calgary, \$11,000	2017-2018
W21C Health Services Research Scholarship , Alberta Health Services, \$30,000	2016-2017
W21C Health Services Research Scholarship , Alberta Health Services, \$30,000	2015-2016
Computer Science Department Research Award , University of Calgary, \$8,000	2016-2017
Faculty of Graduate Studies Travel Award , University of Calgary, \$1,000	2015
Computer Science Department Research Award , University of Calgary, \$2,000	2015-2016
Computer Science Department Research Award , University of Calgary, \$8,000	2014-2015

Journal Publications (J)

J6. **Fateme Rajabiyazdi**, Charles Perin, Lora Oehlberg, and Sheelagh Carpendale. Designing Patient Data Visualization: A Wicked Problem. *Computer Graphics and Applications* 2021.

J5. Charbel El-Kefraoui, **Fateme Rajabiyazdi**, Nicolò Pecorelli, Franco Carli, Lawrence Lee, Liane S Feldman, Julio F Fiore. Prognostic value of the Duke Activity Status Index (DASI) in patients undergoing colorectal surgery. *World Journal of Surgery* 2021, <https://doi.org/10.1007/s00268-021-06256-4>.

J4. **Fateme Rajabiyazdi**, Roshni Alam, Aditya Pal, Joel Montanez, Susan Law et al. What does ‘recovery’ mean to patients undergoing abdominal surgery? An international qualitative study. *JAMA Surgery* 2021, doi:10.1001/jamasurg.2021.1557

J3. Maryam Mozafarinia, **Fateme Rajabiyazdi**, Marie-Josée Brouillette, Lesley K. Fellows, and Nancy E. Mayo. Development and Usability of a Feedback Tool, “My Personal Brain Health Dashboard”, to Improve Setting of Self-Management Goals Among People Living with HIV in Canada. *Quality of Life Research Journal* 2020, <https://doi.org/10.1007/s11136-020-02555-w>.

J2. Maryam Mozafarinia, **Fateme Rajabiyazdi**, Marie-Josée Brouillette, Lesley Fellows, Bärbel Knäuper, and Nancy E. Mayo. Effectiveness of a Personalized Health Profile on Specificity of Self-Management Goals Among People Living with HIV in Canada: A Protocol for a Blinded Pragmatic Randomized Controlled Trial. *MNI Open Res* 2020, 4:1.

J1. Charbel El-Kefraoui, Ghadeer Olleik, Marc-Aurele Chay, Araz Kouyoumdjian, Philip Nguyen-Powanda, **Fateme Rajabiyazdi**, et al. Opioid Versus Opioid-free Analgesia after Surgical Discharge: Protocol for a Systematic Review and Meta-analysis. *BMJ Open* 2020, 10:e035443. doi: 10.1136/bmjopen-2019-035443.

Submitted (J)

Jx. Uyen Do, Charbel El-Kefraoui, et al., **Fateme Rajabiyazdi**, Nadia Safa, Nawar Touma, Francine Tremblay. Opioid-free analgesia after outpatient general surgery: A pilot randomized controlled trial. *British Journal of Anaesthesia* (2022).

Jx. Maryam Mozafarinia, **Fateme Rajabiyazdi**, et al., Effectiveness of a Personalized Health Profile on Specificity of Self-Management Goals Among People Living with HIV in Canada Findings from a Blinded Pragmatic Randomized Controlled Trial. *British Journal of Health Psychology* (2021).

Jx. Natasha Caminsky, Jeongyoon Moon, Nancy Morin, Karim Alavi, Rebecca C Auer, Liliana G Bordeianou, Sami A Chadi, Sébastien Drolet, Amandeep Ghuman, Alexander Liberman, Tony MacLean, Ian Paquette, Jason Park, Sunil Patel, Scott Steele, Patricia Sylla, Steven Wexner, Carol-Ann Vasilevsky, **Fateme Rajabiyazdi**, Marylise Boutros. (2021). Patient and surgeon preferences for early ileostomy closure following restorative proctectomy for rectal cancer – why aren’t we doing it?. *Surgical Endoscopy*.

Jx. Vincent Brissette, Nasra Al Busaidi, Marie Demian, Carol-Ann Vasilevsky, Nancy Morin, **Fateme Rajabiyazdi**, Marylise Boutros. “Exploring Patients’ Information Needs and Expectations on Sexual Dysfunction After Rectal Cancer Treatment: A Qualitative Study” *Diseases of the Colon & Rectum*.

Jx. Julio F Fiore Jr., Charbel El-Kefraoui, Marc-Aurele Chay, Philip Nguyen-Powanda, Uyen Do, Ghadeer Olleik, **Fateme Rajabiyazdi**, et al. “Opioid versus opioid-free analgesia after surgical discharge: A systematic review and meta-analysis of randomised controlled trials” *Lancet*.

Jx. Olivia Monton, Allister Smith, Jeongyoon Moon, Marie Demian, Richard Garfinkle, Carol-Ann Vasilevsky, **Fateme Rajabiyazdi**, Marylise Boutros. “An Online Educational App for Rectal Cancer Survivors with Low Anterior Resection Syndrome: A Mixed Methods Pilot Study” *Diseases of the Colon & Rectum*.

Jx. Rachel Szwimer, Jeongyoon Moon, **Fateme Rajabiyazdi**, Marylise Boutros. Optimal Timing of Knowledge Dissemination on Bowel Dysfunction for Patients Undergoing Rectal Cancer Surgery.

Conference Publications (C)

C8. **Fateme Rajabiyazdi**, Charles Perin, Lora Oehlberg, and Sheelagh Carpendale. Exploring the Design of Patient-Generated Data Visualizations. In *Proceedings of the 46th Graphics Interface Conference, GI’20*, pages 362-373. ACM, 2020. [DOI](#)

C7. **Fateme Rajabiyazdi**, Charles Perin, Jo Vermeulen, Diane Gromala, and Sheelagh Carpendale. Differences That Matter: In-Clinic Communication Challenges. In *Proceedings of the 2017 Pervasive Computing Technologies for Healthcare*, pages 251-260. ACM, 2017. [DOI](#)

C6. **Fateme Rajabiyazdi**, Charles Perin, Lora Oehlberg, and Sheelagh Carpendale. The Challenges of Individuality to Technology Approaches to Personally Collected Health Data. In *Proceedings of the 2017 Pervasive Computing Technologies for Healthcare*, pages 448-451. ACM, 2017. [DOI](#)

C5. **Fateme Rajabiyazdi**. Designing and Developing Technologies to Facilitate Clinician-Patient Communication. In *Proceedings of the 2016 International Conference on Interactive Surfaces and Spaces*, pages 19-24. ACM, 2016. [DOI](#)

C4. Alice Thudt, Jagoda Walny, Charles Perin, **Fateme Rajabiyazdi**, Lindsay MacDonald, Riane Vardeleon, Saul Greenberg, and Sheelagh Carpendale. Assessing the Readability of Stacked Graphs. In *Proceedings of the 42nd Graphics Interface Conference, GI’16*, pages 167–174, 2016. [DOI](#)

C3. **Fateme Rajabiyazdi**, Jagoda Walny, Carrie Mah, John Brosz, and Sheelagh Carpendale. Understanding Researchers’ Use of a Large, High-Resolution Display Across Disciplines. In *Proceedings of the 2015 International Conference on Interactive Tabletops & Surfaces*, pages 107–116. ACM, 2015. [DOI](#)

C2. **Fateme Rajabiyazdi** and Tom Gedeon. Hand Grip Strength on a Large PDA: Holding While Reading Is Different from a Functional Task. In *Proceedings of the 2012 Sixth International Conference on Complex, Intelligent, and Software Intensive Systems*, pages 475–480, 2012. [DOI](#)

C1. **Fateme Rajabiyazdi** and Tom Gedeon. Comparing User Performance on an iPad to a 17-inch BackPad. In *Proceedings of the 2012 Sixth International Conference on Complex, Intelligent, and Software Intensive Systems*, pages 469–474, 2012. [DOI](#)

Peer Reviewed Abstracts and Posters (AP)

AP13. Yossef Levin, Nasra Al Busaidi, Marie Demian, Nancy Morin, Carol-Ann Vasilevsky, **Fateme Rajabiyazdi**, Marylise Boutros. Financial and Occupational Impact of Low Anterior Resection Syndrome: A Qualitative Study. American Society of Colon and Rectal Surgeons, 2021. (Poster).

AP12. Rachel Szwimer, Jeongyoon Moon, Marie Demian, Nancy Morin, Carol-Ann Vasilevsky, **Fateme Rajabiyazdi**, Marylise Boutros. Qualitative Study to Explore the Optimal Timing and Approach for the LARS discussion. Canadian Surgery Forum, 2021. (Poster).

AP11. Vincent Brissette, Nasra Al Busaidi, Marie Demian, Nancy Morin, Carol-Ann Vasilevsky, **Fateme Rajabiyazdi**, Marylise Boutros. "Let's talk about sex?" A Qualitative Study Exploring Patients' Needs and Expectations for Information on Sexual Dysfunction After Rectal Cancer Surgery. Canadian Surgery Forum, 2021. (Poster)

AP10. Olivia Monton, Allister Smith, Jeongyoon Moon, Marie Demian, Richard Garfinkle, Carol-Ann Vasilevsky, **Fateme Rajabiyazdi**, Marylise Boutros. An Online Educational App for Rectal Cancer Survivors with Low Anterior Resection Syndrome: A Pilot Study. Canadian Surgery Forum, 2021. (Podium).

AP9. **Fateme Rajabiyazdi**, Roshni Alam, Haley Montgomery, Charbel El Kefraoui, Lawrence Lee, Nancy Mayo, Liane Feldman, and Julio Fiore Jr. Item generation and cognitive interviewing for a patient-reported outcome measure of recovery after abdominal surgery. Poster presentation at International Society for Quality of Life research, 27th annual conference, S84-S85, Springer, 2020.

AP8. Maryam Mozafarina, **Fateme Rajabiyazdi**, Amanda Austin-Keiller, Marie-Josée Brouillette, Lesley Fellows, Nancy E Mayo. Goal quality, education, and cognition: preliminary analysis of self-management goals formulated by people living with HIV. Poster presentation at International Society for Quality of Life research, 27th annual conference, S106-S106, Springer, 2020.

AP7. **Fateme Rajabiyazdi**, Aditya Pal, Roshni Alam, Joel Montanez, Susan Law, Lawrence Lee, Nicolò Pecorelli, Watanabe Yusuke, Chiavegato D Luciana, Massimo Falconi, Hirano Satoshi, Nancy E Mayo, Liane S Feldman, and Julio F Fiore Jr. What Does 'Recovery' Mean To Patients Undergoing Abdominal Surgery? An International Qualitative Study. Poster presentation at the Society of American Gastrointestinal and Endoscopic Surgeons, Cleveland, OH, USA, 2020.

AP6. Charbel El-Kefraoui, Ghadeer Olleik, Marc-Aurele Chay, Araz Kouyoumdjian, Philip Nguyen-Powanda, **Fateme Rajabiyazdi**, Uyen Do, Alexa Derksen, Tara Landry, Alexandre Amar-Zifkin, Ramanakumar Agnihotram, Marc Martel, Gabriele Baldini, Liane S Feldman, and Julio F Fiore Jr. Opioid Versus Opioid-free Analgesia after Surgical Discharge: a Systematic Review and Meta-analysis. Poster presentation at Experimental Surgery Research Day, Montreal, Canada, 2019.

AP5. Seyedeh Maryam Mozafarina, **Fateme Rajabiyazdi**, and Nancy Mayo. Measuring quality of health outcome goals using text mining techniques. Poster presentation at International Society for Quality of Life research, 26th annual conference, San Diego, USA, S126-S126, Springer, 2019.

AP4. Seyedeh Maryam Mozafarina, **Fateme Rajabiyazdi**, and Nancy Mayo. Text mining application for measuring quality of health outcome goals. Poster presentation at Centre for Outcome Research & Evaluation Research Day, Montreal, Canada, 2019.

AP3. **Fateme Rajabiyazdi**, Charles Perin, Lora Oehlberg, and Sheelagh Carpendale. Personal Patient-Generated Data Visualizations for Diabetes Patients. Poster presentation at the *IEEE Information Visualization Conference*, Berlin, Germany, 2018. [Link](#).

AP2. Julie Babione, **Fateme Rajabiyazdi**, Charles Perin, Joseph Tropiano, Megan Cosby, Maria Santana, Jaime Kaufman, Sheelagh Carpendale, William Ghali, and Peter Sargious. Identifying Opportunities

for Innovation in Patient-Centred Care Plans Through User-Centred Design Research. Poster presentation at the *Patient Oriented Research Summer Institute Conference*, Canada, Calgary, 2016.

AP1. **Fateme Rajabiyazdi**, Charles Perin, and Sheelagh Carpendale. WEST: Visualizing non-Emergency Surgery Waiting Times. Poster presentation at the *IEEE Information Visualization Conference*, Chicago, USA, 2015. [Link](#)

Peer Reviewed Workshop Papers (W)

W3. **Fateme Rajabiyazdi**, Charles Perin, Julie Babione, Joseph Tropiano, Maria Santana, Jaime Kaufman, William Ghali, Peter Sargious, and Sheelagh Carpendale. Challenges Involving Patients in their Care Plan from Clinicians' Perspectives. In *Proceedings of the CHI Workshop on Interactive Systems in Healthcare (WISH'16)*, ACM, 2016. [Link](#)

W2. Xin Tong, Diane Gromala, Lyn Bartram, **Fateme Rajabiyazdi**, and Sheelagh Carpendale. Evaluating the Effectiveness of Three Physical Activity Visualizations - How People Perform vs. Perceive. In *eProceedings of the IEEE Information Visualization Conference*, 2015.

W1. Tamara Flemisch, **Fateme Rajabiyazdi**, Mona Hosseinkhani, and Sheelagh Carpendale. NeckLan: Language as Jeweller. In *eProceedings of the IEEE Information Visualization Conference*, 2015. [Link](#)

Thesis (T)

T3. **Fateme Rajabiyazdi**. Exploring the Design of Visualizations to Facilitate Patient-Provider Communication. *PhD Thesis, University of Calgary, 2018*. [Link](#)

T2. **Fateme Rajabiyazdi**. Design and Development of Interface for Different Tablet Sizes. *Master Thesis, School of Computer Science, Australian National University, 2012*. [Link](#)

T1. **Fateme Rajabiyazdi**. Finding Social Network Graphs in News Websites, *Bachelor Thesis (in Persian), School of Electrical and Computer Engineering, University of Tehran, 2010*.

Teaching Experience

Instructor

BIOM5403 Data Visualization - Carleton University Winter 2022
Enrollment: 20

SYSC2006D Foundations of Imperative Programming - Carleton University Winter 2021
Enrollment: 120 students

Guest Lecturer

Observational Research Techniques - McGill University Fall 2020

Introduction to Information Visualization - University of Calgary Fall 2017

Visualization and Visual Analytics - University of Calgary Fall 2016

Teaching Assistant

Thinking with Data - University of Calgary Summer 2017

Introduction to Information Visualization - University of Calgary Fall 2017

Visualization and Visual Analytics - University of Calgary Fall 2016

Human-Computer Interaction - University of Calgary Winter 2015
Introduction to CS Application Software - University of Calgary Winter 2014

Supervision and Mentoring

Supervision

Alicia Ouskine

MASc-HCI, Carleton University Fall 2021-present
Co-Supervisor: Adrian Chan
Designing and Developing Data Visualization for Patients in Rehabilitation Centers

Rebecca Langstone

MASc-HCI, Carleton University Fall 2021-present
Designing and Developing Patient Data Collection via Virtual Assistant AI Technology

Rahel Gunaratne

Bachelor Software Engineering
I-CUREUS Undergraduate Student Researcher, Carleton University Summer 2021-present
Project: Designing an Interactive Visualization System to Enhance Student Awareness on EDI

Arsh Saleem

Bachelor of Engineering Biomedical and Electrical
CO-OP Program, Carleton University Summer 2021-present
Project: Designing and Developing an Accessible Pain Tracker

Co-Supervision

Connor Harbel

MASc, Carleton University Fall 2021-present
Supervisor: Dr. Robert DeKemp
Thesis: Cardiac Image Registration

Elahe Khorasani

Postdoctoral, McGill University Spring 2021-present
Supervisor: Dr. Julio Fiore
Project: Developing a patient-reported outcome measure to assess recovery after abdominal surgery

Unofficial Co-Supervision

Kevin Tran

Research Associate, McGill University Spring 2021-present
Supervisor: Dr. Suzanne Morin
Project: Developing a Mobile app to Support Patients Manage Pain after a Bone Fracture

Caroline Berger

Research Associate, McGill University 2020-2021
Supervisor: Dr. Suzanne Morin
Project: Designing a Mobile app to Support Patients Manage Pain after a Bone Fracture

Olivia Monton
Medical student, McGill University 2020-2021
Supervisor: Dr. Marylise Boutros
Project: eLARS Online Educational App Pilot Study

Vincent Brissette
Medical student, McGill University 2020-2021
Supervisor: Dr. Marylise Boutros
Project: Sexual Dysfunction in Patients with LARS: A Qualitative Study

Rachel Szwimer
Medical student, McGill University 2020-2021
Supervisor: Dr. Marylise Boutros
Project: Exploring the Optimal Timing for detailed LARS discussions

Aditya Pal
Medical student, McGill University 2019-2020
Supervisor: Dr. Julio Fiore
Project: Understanding Patients' Perspectives who are Recovering from Abdominal Surgery

Graduate Advisory - Committee Member

Mohamed Gazarin
PhD student, Dept of Health Sciences Carleton University 2021-present
Development of an Automated Vision-based Incident Analysis System for Indoor Falls

Fourth-Year Undergraduate Engineering Projects

Laura Reid, David Casciano, Alice Olorunnife Fall 2021
Visualizing Blood Pressure Data

Jack Hendry, Justice Ayela, Haoyu Xu Fall 2021
Connecting Health Data from iPad to a Large Display

Fourth-Year Undergraduate Engineering Projects - Second Reader

Ghezel Al-Hakim, Ben Susilo, Firas Aboujamee Winter 2021
Supervisor: Dr. Adrian Chan
Joint Angle Measurement Project

Jake Bridge, Mackenzie Hoyle, David Neale, Daniel Neasmith, Thomas Sloan Winter 2021
Supervisor: Dr. Bruce Wallace
Smart Pillbox for Persons with Dementia

Mentorship

Charbel El-Kefraoui
Master of Experimental Surgery McGill University 2019 - 2020

Uyen Do
Master of Experimental Surgery McGill University 2020 - 2020

Tharaniya Vallipuram
Medical Student McGill University 2019 - 2020

Andrew Miller
Medical Student McGill University 2019 - 2020

Invited Talks

- Advancing New Canadian Women in Technology** January 2022
Title: Data Visualization for health
- Nuclear Medicine Research Rounds - Ottawa Hospital** September 2021
Title: Multi-person Interactions with Medical Data on Large Displays
- Carleton University Institute for Data Science - Seminar Series** April 2021
Title: Exploring the Design and Development of Patient Health Data Visualizations - [Link](#)
- IEEE Ottawa Section: Engineering in Medicine and Biology Society** February 2021
Title: Information Visualization to Support Patients' Medical Care Management - [Link](#)
- Department of Computer Science & Software Engineering, Concordia University** April 2020
Title: Designing and developing information visualization tools to support patients with their medical care
- Minimally Invasive Surgery Research Day, McGill University Health Center** October 2019
Title: What does 'recovery' mean to patients undergoing abdominal surgery?
- Human Factors Interest Group, University of Toronto** April 2018
Title: Designing and Developing Tools to Enhance Patient-Physician Communication - [Link](#)
- Ward of the 21st Century Symposium, Alberta Health Services** October 2015
Title: WEST: Visualizing non-Emergency Surgery Waiting Times

Knowledge and Technology Transfer

- PainApp** - under development 2020 - present
PainApp is the first mobile application developed using user-center design approach to support older adults manage their pain after a fracture. I am the co-principal investigator in the project leading the design team.
- MyCareCompass** - under development [Link](#) 2018 - present
MyCareCompass is the first platform designed for patients with chronic conditions in Alberta to manage their care. My Ph.D. reserach studies and my data visualization designs are incorporated into this platform.

Software Development and Design

- WEST: Visualizing Surgery Waiting Time** [Link](#) - [Video](#) 2015
WEST is an interactive visualization tool displaying surgery waiting times across British Columbia. This project is motivated by the long waiting time for surgeries in BC.
- Leitner System App** [Link](#) 2014
Leitner app is designed to help people memorize flashcards bearing information as words or numbers. This app employs the Leitner system, repetition, where cards are reviewed at the increasing interval.

Collaborations

Canadian Governments and Healthcare organizations

- National Research Council Canada - Aging in Place Challenge program** 2021 - present
Dr. Hélène Fournier, Research Officer Human-Computer Interaction Department

Bruyère Research Institute, Canada, Ottawa 2021 - present
 Dr. Frank Knoefel, Chair in Primary Health Care Dementia Research, Bruyère Research Institute

Winchester District Memorial Hospital 2021 - present
 Dr. Mohamed Gazarin, Chief Research Officer

Industry

Novacene AI, Canada, Ottawa 2021 - present
 Marcelo Bursztein, Company's founder and CEO Novacene AI Corp.

International Collaborations

Research Collaborator, University of Cincinnati, United States 2022 - present
 Dr. Jillian Aurisano Assistant Prof, University of Cincinnati Electrical Engineering & Computer Science.

Research Collaborator, Oxford Brookes University, United Kingdom 2019 - 2020
 Centre for Movement, Occupational and Rehabilitation Science with Dr. Mansoubi and Dr. Shelly Coe.

Research Collaborator, Indiana University, United States 2015 - 2017
 Dr. Haley Macleod.

Academic Services

Program Committee

CHI Late-Breaking Work (LBW) Program Committee 2022
 Graphics Interface Conference - Strategy Planning Committee 2020 - 2021
 IEEE Information Visualization (InfoVis) Conference 2020, 2021 - Short Papers
 McGill University Health Center Injury, Repair, Recovery Annual Research Day 2020 - Posters
 McGill University Experimental Surgery Research Day 2019 - Best Poster Award
 ACM Intelligent User Interfaces (IUI) Conference 2015, 2019 - 2021 - Poster, Short and Long Paper

Conference Chair

Graphics Interface (GI) 2022 - Poster chair
 ACM Interactive Surfaces and Spaces (ISS) Conference 2022 - Publicity Chair
 ACM Interactive Surfaces and Spaces (ISS) Conference 2021 - Poster Chair
 ACM Interactive Surfaces and Spaces (ISS) Conference 2019 - Video Preview Chair
 ACM Interactive Surfaces and Spaces (ISS) Conference 2016 - Mobile App Chair

Conference Paper Reviewer

UIST 2021, GI 2021, AMIA 2017 - 2021, DIS 2018 - 2019, CHI 2016 - 2020, TEI 2017& 2021, IUI 2016-2021

Journal Paper Reviewer

Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT) Journal (2 articles)

Community Outreach

Carleton University Women in Science and Engineering Words Podcast November 2021
 Role: Podcast guest

Carleton University SCETalk: What is Data Visualization October 2021
 Role: Speaker

Passionate Minds Unit 101 Summer Webinar August 2021
 Role: Lecturer

CU-WISE National Engineering Month Event Information March 2021
 Role: Panelist