

Sabrina Lakhdir

☎ 587-892-6600 — ✉ sabrinalakhdir@uvic.ca — 🌐 Portfolio — 🌐 LinkedIn

Research Interests — Wearables, Customization, Social Acceptability, Digital Fabrication, Creativity Support Tools, HCI.

Education

Doctor of Philosophy in Computer Science

University of Victoria

Expected 2027

Master of Science in Computer Science

University of Victoria

Transferred to PhD

Bachelor of Science, Honours, Computer Science

University of Calgary

Minor: Visual Art and Art History

Concentration: Human Computer Interaction

June 2021

Research and Professional Experience

Research Associate

VIXI Lab, University of Victoria

September 2021 – Present

Victoria, British Columbia

Related Publications: UR1, C5, C4, C3, J7, C2, J6, J5, J4, J3

- Led research projects to understand how we might empower and engage end-users in designing personalized devices.
- Performed qualitative analysis to understand users, and iterative prototyping to develop interactive systems and artifacts.
- Emphasized focus on user-centered research and design; the social impacts and acceptability of advancing technologies.
- Engaged with fabrication technologies: 3D printing, material explorations, laser cutting, sewing, Arduino, e-textile sensors and actuators.

Human Factors Research Intern

Home, Beats, and Ecosystem, Apple

April 2024 – December 2024, May 2025 - August 2025

Los Angeles, California

- Designed and conducted small- and large-scale (n=20-100) user studies to understand product fit, packaging, UI and UX; to make design recommendations for future products; and to collect product usage and sensor data. Studies utilized in-house developed testing tools, and employed varied methodologies to capture audio, visual, and textual data.
- Collected, organized, and analyzed qualitative and large-scale quantitative data related to user perception and anthropometric fit using Python scripts, built-in tools on spreadsheet applications, and thematic analysis.
- Wrote program-specific scripts for data collection, analysis, and task automation within third-party visualization softwares for efficient performance of repetitive tasks during visual analysis.
- Worked with various technologies: 3D scanning, 3D modelling, mixed material 3D printing, 3D visualization, Arduino.

Research Associate

Multilingual Families Lab, University of Edmonton

October 2020 – September 2021

Edmonton, Alberta

Related Publications: J2

- Collaborated with an interdisciplinary team to iteratively develop an application (HTML, JS, CSS) to support communication amongst families, therapists, and educators who face challenges due to language barriers.

Research Associate

iLab, University of Calgary

September 2020 – August 2021

Calgary, Alberta

Related Publications: C1

- Conducted a design study to understand possible ideas of wearables to aid autonomous vehicle-pedestrian interactions.
- Ideated and prototyped a series of functional, soft-wearable prototypes that integrated e-textile sensors and actuators.

Summer Research Intern

Calgary Pediatric Brain-Computer Interface Program, University of Calgary & Alberta Children's Hospital

May 2019 – August 2019

Calgary, Alberta

Related Publications: J1

- Developed an interactive system (Unity, C#) using data collected by a transcranial magnetic stimulation robot to support remote training for healthcare staff.

Academic Teaching

Teaching Assistant

University of Victoria

SENG 310 (*Human Computer Interaction*)

Fall 2021, Summer 2022, Spring 2024, Spring 2025, Spring 2026

CSC 586B (*Designing Collaborative Technologies*)

Spring 2024

CSC 485C/578C (*Computing for Cognitive Augmentation*)

Fall 2022

CSC 106 (*The Practice of Computer Science*)

Spring 2022

Guest Lectures and Invited Talks

<i>GlucMaker, Health Technology Showcase, University of Victoria</i>	November 2025
<i>Graduate Student Life in Victoria, CSC 595, University of Victoria</i>	November 2025
<i>Introduction to Prototyping: What, Why, and How, UVic WEST x UVic Robotics</i>	October 2025
<i>Designing Tools to Support the Customization of Wearables, Autodesk Research, MaRS Toronto</i>	February 2023
<i>Hour of Code, CSC 106, University of Victoria</i>	November 2022
<i>Creativity and Cognition, CSC 485C/578C, University of Victoria</i>	November 2022
<i>Customization of Personal Wearables, SENG 310, University of Victoria</i>	July 2022
<i>The Intersection of Art and Technology, CSC 106, University of Victoria</i>	March 2022

Mentorship

<i>Undergraduate Research Assistant - Charlotte Jacques, University of Victoria</i>	January 2025 – August 2025
<i>Undergraduate MITACS Intern - Oishwarjya Banerjee, University of Victoria</i>	July – October 2022
<i>Undergraduate Honours Student - Vincent Potrykus, University of Victoria</i>	January – April 2022

Publications

Conference Proceedings

- C5 Sowmya Somanath, Molly Stewart, **Sabrina Lakhdir**, Phaedra Berger, and Regan L. Mandryk. 2026. Understanding How Creativity Support Tools Can Foster Happiness. In Proceedings of the 2026 CHI Conference on Human Factors in Computing Systems (CHI '26). Association for Computing Machinery, New York, NY, USA, Article 1004, 1–22. <https://doi-org/10.1145/3772318.3790898>
- C4 **Sabrina Lakhdir**, Charles Perin, and Sowmya Somanath. 2024. *Expressive Clothing: Understanding Hobbyist-Sewers' Visions for Self-Expression Through Clothing*. In Proceedings of the CHI Conference on Human Factors in Computing Systems (CHI '24). Association for Computing Machinery, New York, NY, USA, Article 858, 1–17. <https://doi.org/10.1145/3613904.3642338>
- C3 **Sabrina Lakhdir**, Chehak Nayar, Fraser Anderson, Helene Fournier, Liisa Holsti, Irina Kondratova, Charles Perin, and Sowmya Somanath. 2024. *GlucMaker: Enabling Collaborative Customization of Glucose Monitors*. In Proceedings of the CHI Conference on Human Factors in Computing Systems (CHI '24). Association for Computing Machinery, New York, NY, USA, Article 127, 1–21. <https://doi.org/10.1145/3613904.3642435>
- C2 **Sabrina Lakhdir**. 2024. *Creating Positive Social Experiences Through the Design of Custom Wearables*. In Extended Abstracts of the 2024 CHI Conference on Human Factors in Computing Systems (CHI EA '24). Association for Computing Machinery, New York, NY, USA, Article 428, 1–7. <https://doi.org/10.1145/3613905.3638190>
- C1 **Sabrina Lakhdir**, Sowmya Somanath, and Ehud Sharlin. 2023. *Wearing Awareness: Designing Pedestrian-Wearables for Interactions with Autonomous Vehicles*. In Extended Abstracts of the 2023 CHI Conference on Human Factors in Computing Systems (CHI EA '23). Association for Computing Machinery, New York, NY, USA, Article 316, 1–8. <https://doi.org/10.1145/3544549.3585655>

Under Review

- UR2 Charlotte Jacques, **Sabrina Lakhdir**, Elizabeth Reid, Anthony Estey, Regan Mandryk, Sowmya Somanath. *Gratitude Buddy: Design and Evaluation of Scaffolding Supports for a Mobile Gratitude Application*. Submitted to GI '26.
- UR1 **Sabrina Lakhdir**, Helene Fournier, Fraser Anderson, Liisa Holsti, Irina Kondratova, Charles Perin, and Sowmya Somanath. *Evaluating GlucMaker: A Tool for Co-Designing Bespoke Glucose Monitors*. In progress, to be submitted to JMIR Formative Research.

Juried

- J8 **Sabrina Lakhdir**, Sowmya Somanath. *Towards a Framework for Designing Socially Acceptable Wearables for Well-being*. Everyday Wearables for Personalized Health and Well-being Workshop at CHI '26.
- J7 **Sabrina Lakhdir**, Sowmya Somanath. *Characteristics of Socially Acceptable Healthcare Devices*. HCI & Health Workshop at CHI '25.
- J6 **Sabrina Lakhdir**, Charles Perin, and Sowmya Somanath. *Envisioning Tools to Support Creating Information-Communicating Garments*. Poster Presentation at Graphics Interface (GI '23).
- J5 **Sabrina Lakhdir**, Liisa Holsti, Helene Fournier, Irina Kondratova, Fraser Anderson, Charles Perin, and Sowmya Somanath. *Engaging Diverse Individuals in Remote Co-Design to Collaboratively Design Personalized Glucose Monitors*. A Workshop on Disability Inclusive Remote Co-Design at ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '22).

- J4 **Sabrina Lakhdir**, Helene Fournier, Irina Kondratova, Fraser Anderson and Sowmya Somanath. *Tools for Collaboratively Designing and Evaluating Personalized Assistive Technologies*. Poster presented at Celebrating the Success of Women in STEM Symposium: Pushing the frontiers of research through collaboration. (Feb. 2022); virtual.
- J3 **Sabrina Lakhdir** and Sowmya Somanath. *Envisioning a Toolkit for Storytelling with Garments*. Toolkits & Wearables Workshop at CHI Conference on Human Factors in Computing Systems (CHI '22).
- J2 Catrine Demers, **Sabrina Lakhdir**, Skanda Kaushik, Zhanika Gimeno, Drishti Munjal, Lucy Yang, Rigel Tormon, Whitney Ebose, and Andrea AN MacLeod. *linGrow: Development of a multilingual app to support home-school communication of multilingual families*. (2021).
- J1 **Sabrina Lakhdir**, Adam Kirton, Ephrem Zewdie. *A Virtual Trainer for Transcranial Magnetic Stimulation*. Poster at Alberta Children's Hospital Research Institute Summer Student Research Symposium (ACHRI 2019).

Academic Service

Student Volunteer Co-Chair
Accessibility Co-Chair

Graphics Interface 2023
Designing Interactive Systems 2022

Program Committee GI '23, GI '24, GI '26, CHIWORK '26

Associate Chair CHI '26 Poster Track

Student Volunteer CHI '23

Reviewer CHI '22*, TEI WIP '23, CHI '23, CHI LBW '23, C&C Pictorial '23, DIS '23, INTERACT Short Papers '23, GI '23, UIST '23, TEI '24, TEI Pictorials '24, GI '24, TEI Papers '25, TEI Pictorials '25, TEI WIP '25, CHI '25*, CHI '26*, CHI '26 Posters, CHIWORK '26, GI '26

* Special Recognition

Scholarships, Honours, and Awards

Robert W. Ford, Donald Wagg, & Alexander and Helen Stafford MacCarthy Muir Graduate Scholarships	December 2025
President's Research Scholarship	May 2026, May 2025, May 2024, May 2023
University of Victoria Graduate Award	July 2025, July 2024, July 2023, April 2023, April 2022
ACM Doctoral Consortium Award	May 2024
CUPE 4163 Conference Award Fund	April 2026, May 2025, May 2024, April 2023
NSERC Post Graduate Scholarship – Doctoral	May 2023
Faculty of Graduate Studies International Travel Grant	April 2023, October 2022
Stantec Equity, Diversity, & Inclusion Scholarship	December 2022
British Columbia Graduate Scholarship	September 2022
Gary Marsden Travel Award	May 2022
University of Victoria Graduate Fellowship Award	September 2021

Professional Memberships

ACM SIGCHI Member
Association of Computing Machinery (ACM) Student Member

Skills

Programming Python, Java, C# (Unity), HTML, CSS, JS, Swift, Arduino

Tools Visual Studio Code, PyCharm, Processing, Tableau, Git, Microsoft Office, JMP

Design Graphic design (Adobe Photoshop, Illustrator), UI/UX prototyping (InVision, Adobe XD)

Digital Fabrication 3D modelling (Tinkercad, Paraview, Meshlab), 3D printing, 3D scanning (Artec), graphic development, laser cutting (Lightburn), e-textiles (Arduino, Adafruit, Lilypad)

Qualitative Research Thematic analysis, grounded theory

Research Methods Interviews, Diary Studies, Focus Groups, Design Probes