

Bradley Rey

Assistant Professor

University of Winnipeg

Education	Ph.D. – Computer Science	University of British Columbia - Specializing in Human Computer Interaction, Personal Informatics, In-Situ Interfaces - Supervisor: Dr. Pourang Irani - Dissertation Title: Databiting: Enabling Lightweight, Transient, and In-Situ Exploration of Personal Fitness Data on Smartwatches	2020 - 2025
	B.Sc. – Major	University of Manitoba - Major in Computer Science, Minor in Mathematics	2014 - 2020

Publications	Journals & Conferences	Understanding User Preferences of Voice Assistant Answer Structures for Personal Health Data Queries <i>ACM Conference on Conversational User Interfaces (CUI) 2024</i> Bradley Rey , Yumiko Sakamoto, Jaisie Sin, Pourang Irani
		T-Force: Exploring the Use of Typing Force for Three State Virtual Keyboards <i>ACM Conference on Human Factors in Computing Systems (CHI) 2023</i> Shariff AM Faleel, Yishuo Liu, Roya A Cody, Bradley Rey , Linghao Du, Jiangyue Yu, Da-Yuan Huang, Pourang Irani, Wei Li
		Investigating In-Situ Personal Health Data Queries on Smartwatches <i>ACM Journal on Interactive, Mobile, Wearable, and Ubiquitous Technologies (IMWUT) 2023</i> Bradley Rey , Bongshin Lee, Eun Kyoung Choe, Pourang Irani
		Understanding and Adapting Bezel-to-Bezel Interactions for Circular Smartwatches in Mobile and Encumbered Scenarios <i>ACM Conference on Mobile Human Computer Interaction (MobileHCI) 2022</i> Bradley Rey , Kening Zhu, Simon Perrault, Sandra Bardot, Ali Neshati, Pourang Irani
		One Ring to Rule Them All: An Empirical Understanding of Day-to-Day Smartring Usage Through In-Situ Diary Study <i>ACM Journal on Interactive, Mobile, Wearable, and Ubiquitous Technologies (IMWUT) 2022</i> Sandra Bardot, Bradley Rey , Lucas Audette, Kevin Fan, Da-Yuan Huang, Jun Li, Wei Li, Pourang Irani
		SSCA: Situated Space-Time Cube Analytics <i>EuroVis 2022</i> Fouad Alallah, Shariff AM Faleel, Yumiko Sakamoto, Bradley Rey , Pourang Irani
		ARO: Exploring the Design of Smart-Ring Interactions for Encumbered Hands

ACM Conference on Mobile Human Computer Interaction (MobileHCI) 2021
Sandra Bardot, Surya Rawat, Duy Thai Nguyen, Sawyer Rempel, Huizhe Zheng,
Bradley Rey, Jun Li, Kevin Fan, Da-Yuan Huang, Wei Li, Pourang Irani

SFLG: Space Filling Line Graphs for Visualizing Interrelated Time-Series Data on Smartwatches
(Honourable Mention)

ACM Conference on Mobile Human Computer Interaction (MobileHCI) 2021
Ali Neshati, Fouad Alallah, **Bradley Rey**, Yumiko Sakamoto, Marcos Serrano, Pourang Irani

BezelGlide: Interacting With Graphs on Smartwatches With Minimal Screen Occlusion

ACM Conference on Human Factors in Computing Systems (CHI) 2021
Ali Neshati, **Bradley Rey**, Sandra Bardot, Shariff AM Faleel, Celine Latulipe, Pourang Irani

Eyes Free Graph Legibility: Using Skin Dragging to Provide a Tactile Graph Visualization on the Arm

Augmented Human 2020
Sandra Bardot, Sawyer Rempel, **Bradley Rey**, Ali Neshati, Yumiko Sakamoto, Carlo Menon, Pourang Irani

Posters & Late Breaking Works

Towards Efficient Interaction for Personal Health Data Queries on Smartwatches

ACM Conference on Mobile Human Computer Interaction (MobileHCI) 2023
Bradley Rey, Charles-Olivier Dufresne-Camaro, Pourang Irani

Expanding Touch Interaction Capabilities for Smart-Rings: An Exploration of Continual Slide and Microroll Gestures

ACM Conference on Human Factors in Computing Systems (CHI) 2022
Anuradha Herath, **Bradley Rey**, Sandra Bardot, Sawyer Rempel, Lucas Audette, Huizhe Zheng, Jun Li, Kevin Fan, Da-Yuan Huang, Wei Li, Pourang Irani

Writely: Force Feedback for Non-Dominant Handwriting Training

World Haptics Conference (WHC) 2021
Shariff AM Faleel, Bibhushan Josi, **Bradley Rey** (equal author contribution)

Magazines

Databiting: Lightweight, Transient, and Insight Rich Exploration of Personal Data

Visualization Viewpoints Department of IEEE Computer Graphics & Applications (CG&A) Magazine March/April 2024
Bradley Rey, Bongshin Lee, Eun Kyoung Choe, Pourang Irani

Workshops

Conversational Health Interfaces in the Era of LLMs: Designing for Engagement, Privacy, and Wellbeing

ACM Conference on Conversational User Interfaces (CUI) 2025
Shashank Ahire, Melissa Guyre, **Bradley Rey**, Minha Lee, Heloisa Candello

Academic Experience & Teaching

Assistant Professor

University of Winnipeg

2025 - present

- Director of the Interact Lab
- ACS-3916 Introduction to Human Computer Interaction (W25)
- ACS-3922 Introduction to Game Development (W25)

Sessional Instructor & Lecturer

University of Winnipeg

2023 - 2024

- ACS-3916 Introduction to Human Computer Interaction (F24)
- ACS-1805 Introduction to Programming (W23 and S24)

		University of British Columbia - COSC 111 Computer Programming 1 - Overall Student Experience of Instruction rating 4.7 / 5 with a 78% response rate	2023
	Teaching Assistant	University of Manitoba - CH 501 Physical User Interface Design - COMP 3020 Human Computer Interaction 1 - COMP 7920 Mobile and Ubiquitous Computing - COMP 2150 Object Oriented Programming	2020 - 2022
	Research Assistant	University of Manitoba, Université Paul Sabatier IRIT - Mobile and Ubiquitous Computing, Challenges and Solutions	2019
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Presentations	Talks	- Applied Computer Science Speaker Series	2025
	Paper Presentations	- ACM Conference on Conversational User Interfaces (CUI)	2024
		- ACM Journal on Interactive, Mobile, Wearable, and Ubiquitous Technologies (IMWUT)	2022, 2023
		- ACM Conference on Mobile Human Computer Interaction (MobileHCI)	2022, 2023
		- ACM Conference on Human Factors in Computing Systems (CHI)	2021
		- Augmented Human (AH)	2020
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Academic Service	Reviewer	- ACM Conference on Conversational User Interfaces (CUI) - ACM Conference on Computer-Supported Cooperative Work & Social Computing (CSCW) - ACM Journal on Interactive, Mobile, Wearable, and Ubiquitous Technologies (IMWUT) - ACM Conference on Human Factors in Computing Systems (CHI) - ACM Conference on Mobile Human Computer Interaction (MobileHCI)	2024, 2025 2024 2023 2022 - 2025 2021, 2025
	Organizing Committees	- ACM Conference on Conversational User Interfaces (CUI) - ACM Conference on Creativity and Cognition (C&C) - ACM Conference on Human Factors in Computing Systems (CHI) - ACM Conference on Mobile Human Computer Interaction (MobileHCI)	2025 2023 2023 2022
	University and Departmental Committees	- University of Winnipeg Course Based Ethics Review Committee - University of Winnipeg Applied Computer Science Departmental Review Committee - The VADA Program Recruitment and Selection Committee	2024 - present 2024 - present 2023
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Students Supervised	Graduate	- Anuradha Herath, Computer Science, University of British Columbia (mentor only)	2021
	Undergraduate	- Mathieu Sawatzky, Applied Computer Science, University of Winnipeg	2025

- Alexa Kozlowski, Applied Computer Science, University of Winnipeg	2025
- Adam Schrofel, Applied Computer Science, University of Winnipeg	2025
- Anirudh Anil, Computer Science, University of British Columbia (mentor only)	2022
- Liam Driscoll, Electrical Engineering, University of British Columbia (mentor only)	2023

Funding & Awards	Fellowships & Scholarships	- The University of Manitoba Graduate Fellowship	2021 - 2022
		- The VADA Program	2021 - 2022
		- Entrance Scholarships	2022
	Grants	- NSERC Discovery Grant	2025 - 2029
		Title: Enhancing In-Situ Data Exploration on Smartwatches for Greater Health Insights	
		- Science Enhancement of Grant	2020
	Awards	- UBC Okanagan Best Dissertation Award (Nominated)	2024
		- First Place, VADA Summer School Data Challenge	2022
		- Honourable Mention, MobileHCI	2021
	Review Recognition	- CHI Late-Breaking Work	2024
