BRENNAN JONES

Email: <u>brennanjones@acm.org</u> Website: <u>brennanjones.com</u>

My research in human-computer interaction (HCI) and computer-supported cooperative work (CSCW) focuses on designing interactive systems for social situation awareness in human-human and human-agent communication. I explore how technology can identify and properly support appropriate information transmission in communication, such as when interacting with other individuals (e.g., teleconferencing, distributed collaboration) and with anthropomorphized agents and AI tools (human-agent communication). My work aims to make technology-mediated communication richer and more equitable for people in different circumstances and foster effective long-term human-AI partnerships to help people achieve their goals. Much of my work is community grounded and done in collaboration with non-profit organizations and industry collaborators. I have published at top-tier HCI venues including ACM CHI, CSCW, DIS, and IEEE ISMAR, mentored several talented and highly motivated individuals, and taught HCI at the graduate and undergraduate levels.

EDUCATION

Ph.D. in Computer Science

Apr. 2017 - Jun. 2021

Updated: 2025/02/13

Research area: Human-Computer Interaction (HCI), Computer-Supported Cooperative Work (CSCW)

University of Calgary, Calgary, AB, Canada, GPA: 4.00/4.00

Supervisory committee: Dr. Anthony Tang (University of Toronto), Dr. Carman Neustaedter (Simon Fraser University), Dr. Ehud Sharlin, Dr. Wesley Willett

Thesis title: Designing Remote Collaboration Technologies for Wilderness Search and Rescue

Visiting Ph.D. Scholar

Apr. 2017 - Aug. 2018, Jan. 2019 - Jun. 2021

Simon Fraser University School of Interactive Arts & Technology, Surrey, BC, Canada

Advisor: Dr. Carman Neustaedter

M.Sc. in Computer Science

Sep. 2014 - Dec. 2016

Research area: Human-Computer Interaction (HCI), Computer-Supported Cooperative Work (CSCW)

University of Calgary, Calgary, AB, Canada, GPA: 3.85/4.00

Thesis advisor: Dr. Anthony Tang

Thesis title: Elevating Communication, Collaboration, and Shared Experiences between Peers in Mobile Video

Communication using Drones

B.Sc. in Computer Science (with First-Class Honours)

Sep. 2011 - Apr. 2014

Concentration: Human-Computer Interaction (HCI)

University of Calgary, Calgary, AB, Canada, GPA: 3.75/4.00

Honours thesis title: Improving Collaboration in Online Group Art Therapy

Extracurricular activities: RezNet, UCalgaryCares

Computer Science (University Transfer)

Sep. 2010 - Apr. 2011

Mount Royal University, Calgary, AB, Canada, GPA: 3.96/4.00 Extracurricular activities: Students in Free Enterprise (SIFE MRU)

WORK EXPERIENCE

Liverpool University (XJTLU).

Current:

Postdoctoral Fellow – w./ Dr. Anastasia Kuzminykh & Dr. Young-Ho Kim (NAVER AI Lab) May 2024 - now University of Toronto Faculty of Information (iSchool) – COoKIE Group, Toronto, ON, Canada Conducting research on human-AI communication, social/conversational agents, long-term human-AI partnerships, memory mechanisms in intelligent agents, AI-supported decision making, and extended reality (XR) interactions. Co-mentoring students and co-leading research in the group. Collaborating with researchers at NAVER AI Lab, Hong Kong University of Science and Technology (HKUST) Guangzhou, and Xi'an Jiaotong-

Past:

Sessional Instructor – INF2208H: User-Centred Systems for Communication Sep. 2024 - Dec. 2024 *University of Toronto Faculty of Information (iSchool)*, Toronto, ON, Canada

Taught a graduate-level course on systems for human-human and human-agent communication. Topics included theoretical mechanisms and UI/UX design principles for developing technologies to support communication through systems (e.g., teleconferencing), around systems (e.g., collaborative software and hardware), and directly with systems (e.g., human communication with intelligent agents). Exposed students to existing academic research and publications on designing technologies for communication as well as current practices in industry around such systems' implementations in practical scenarios.

Research Fellow (Volunteer; Part-time) – w./ Dr. Shaomei Wu

Apr. 2024 - Aug. 2024

Almpower.org, Remote

Worked on research to study the needs and experiences of individuals who stutter when using video conferencing technologies. Helped with co-designing and developing video conferencing tools that are inclusive of those with communication difficulties. Helped develop a Zoom app to support inclusive meetings with individuals who stutter, and co-designed a longitudinal study to understand the usage, perceptions, and impacts of this app by individuals with communication difficulties and their peers.

Postdoctoral (Visiting) Researcher – w./ Dr. Stefan Scherer & Dr. Yan Xu

Apr. 2022 - Mar. 2024

Meta - Reality Labs Research (RL-R), Redmond, WA, USA

Designed, prototyped, and studied novel interfaces for context-aware human-Al interaction on smart glasses and wearable augmented reality (AR). Designed and built a prototype of a conversational Al agent and ran a one-month field study to understand the user value and users' needs from conversational Al agents running on smart glasses. Helped analyze data from a large-scale three-month diary study with several hundred participants, helped synthesize the results into a framework to inform the design of context-aware Al systems for smart glasses, and later co-ran a multi-stage online interview study to derive further design recommendations. Collaborated with Al and machine learning (ML) engineers to design data-collection efforts to train ML models, including a campaign to collect egocentric video as part of Project Aria (https://www.projectaria.com/). Collaborated with designers to help translate research findings into design decisions. Collaborated with engineers and designers in hackathons to help them explore new system prototype and design ideas. Mentored two research interns and five research assistants, prepared two patent applications for novel interface designs, and published three academic papers (with another under preparation).

User Experience (UX) Researcher III

Nov. 2021 - Mar. 2022

Google - Stadia and Immersive Stream Team (Contractor via Adecco), Remote

Worked on UX research to help build and improve tools used by developers and publishers to develop and port their games to the Stadia and Immersive Stream cloud-gaming platforms. Collaborated with partners in design, engineering, and project management to determine relevant research questions and business needs. Co-ran a large survey study to understand developer and publisher satisfaction levels with Stadia's developer and publisher tools. Co-designed a remote user study to evaluate one of Stadia's new tools used to test games running in the cloud. Co-ran a workshop with partners to help them translate the research findings from several internal studies into business decisions and next steps.

JEM Research Intern – w./ Dr. Andy Wilson, Dr. Kori Inkpen, Dr. John Tang, Dr. Sasa Junuzovic, & Greg Baribault (Microsoft Teams product group)

Jun. 2021 - Oct. 2021

Microsoft Research (MSR), Redmond, WA, USA (Remote)

Worked on research exploring how to utilize spatial audio to improve hybrid video conferencing in meeting rooms, in collaboration with the Microsoft Teams product group, the MSR Extended Perception, Interaction & Cognition (EPIC) research group, and the MSR Cambridge Socially Intelligent Meetings research group. Designed, prototyped, and evaluated (through a lab study) different spatial audio configurations for the placements of remote users' voices in Teams meeting rooms (using different mono, stereo, and surround-sound audio layouts). This work led to spatial audio being integrated into the Teams Rooms product (https://tinyurl.com/teams-spatial-audio) and an academic publication at ACM CHI 2023.

Graduate (M.Sc./Ph.D.) Researcher – w./ Dr. Anthony Tang

Sep. 2014 - Jun. 2021

University of Calgary Department of Computer Science – Interactions Lab (iLab), Calgary, AB, Canada Worked on research related to telepresence, video communication, remote collaboration, robotics (e.g., telepresence robots, drones), and emergency response. Designed, implemented, and evaluated prototypes; conducted experiments and foundational studies using various research methodologies; collaborated with other students, post-docs, and professors; written and published papers and posters at top-tier venues; presented and demoed at workshops and conferences; and helped other colleagues with their presentations and written work.

Visiting Ph.D. Scholar – w./ Dr. Carman Neustaedter Apr. 2017 - Aug. 2018, Jan. 2019 - Jun. 2021 Simon Fraser University School of Interactive Arts & Technology – Connections Lab (cLab), Surrey, BC, Canada Worked in collaboration with my Ph.D. co-supervisor and other students in the lab on research related to video communication, social computing, remote collaboration, and telepresence. Conducted lab experiments and field studies to evaluate novel video-communication interfaces. Co-ran a contextual-interview study to understand the needs of 9-1-1 call takers and dispatchers from video-calling interfaces. Mentored junior researchers, including interns, undergraduate, and junior graduate students.

Research Intern – w./ Dr. Sean Rintel

Jul. 2019 - Sep. 2019

Microsoft Research (MSR) Cambridge – Socially Intelligent Meetings Project, Cambridge, England, UK Worked on a two-way extended-reality (XR) telepresence-robot augmentation utilizing an AR avatar overlay, immersive VR, and 360° video streaming. Ran a research study with this prototype to understand how pairs of users adapt to different styles of remote collaboration and 'belonging to a space'.

Research Intern – w./ Ignacio Avellino, Dr. Cédric Fleury, Dr. Michel Beaudouin-Lafon, Dr. Joseph Malloch, & Dr. Wendy Mackay

Apr. 2016 - Sep. 2016

Inria Saclay - ExSitu Group, Orsay, France

Worked on research involving the design and development of a telepresence system for distributed workrooms with large wall displays. Our explorations involved the use of motion-capture systems (e.g., VICON), moving onscreen videos, and telepresence robots acting as physical surrogates for remote users. Helped prototype input devices and run a user study on remote collaboration through large wall displays.

Teaching Assistant - CPSC 481: Human-Computer Interaction I

Sep. 2015 - Dec. 2015

University of Calgary Department of Computer Science, Calgary, AB, Canada

Assisted students with their project work; provided feedback on students' work; taught material not taught in lectures; taught programming and development in Microsoft Visual Studio and Expression Blend; prepared tutorial slides; evaluated students' work (portfolios, presentations, and assignment deliverables).

Undergraduate Researcher – w./ Dr. Anthony Tang

Nov. 2012 - Aug. 2014

University of Calgary Department of Computer Science – Interactions Lab (iLab), Calgary, AB, Canada Worked on undergraduate research projects on remote group art therapy, physical and tangible gaming using Sphero robots, and camera work in mobile video communication.

Web Developer Intern

Jul. 2012 - Nov. 2012

E-Patches and Crests, Remote

Assisted in developing and maintaining the company's website; helped implement an online checkout system for custom orders; and updated online newsletters and the website's main stylesheet. Wrote code using PHP, MySQL, HTML, and CSS.

RezNet Technician Sep. 2011 - Apr. 2012

University of Calgary Residence Services, Calgary, AB, Canada

Assisted students living in residence with connecting to the Internet and opening IT accounts; troubleshot network issues; and updated software on students' computers.

PUBLICATIONS

Journal Articles (refereed):

Jones, B., Tang, A., and Neustaedter, C. (2022). RescueCASTR: Exploring Photos and Live Streaming to Support Contextual Awareness in the Wilderness Search and Rescue Command Post. In *Proceedings of the ACM on Human-Computer Interaction, 6 (CSCW1)*, ACM.

Dash, P., Neustaedter, C., **Jones, B.**, and Yip, C. (2022). The Design and Evaluation of Emergency Call Taking User Interfaces for Next Generation 9-1-1. In *Frontiers in Human Dynamics, Digital Impacts*.

Jones, B., Zhang, Y., Wong, P.N.Y., and Rintel, S. (2021). Belonging There: VROOM-ing into the Uncanny Valley of XR Telepresence. In *Proceedings of the ACM on Human-Computer Interaction, 5 (CSCW1)*, ACM.

Jones, B., Tang, A., and Neustaedter, C. (2020). Remote Communication in Wilderness Search and Rescue: Implications for the Design of Emergency Distributed-Collaboration Tools for Network-Sparse Environments. In *Proceedings of the ACM on Human-Computer Interaction, 4 (GROUP)*, ACM.

Yang, L., **Jones, B.**, Neustaedter, C., and Singhal, S. (2018). Shopping Over Distance through a Telepresence Robot. In *Proceedings of the ACM on Human-Computer Interaction, 2 (CSCW)*, ACM. (Acceptance rate: 25.5% - 184/722)

Archival Conference Papers (refereed)*:

Lu, F., Xu, Y., Xu, X., **Jones, B.**, and Malamed, L.M. (2023). Exploring the Impact of User and System Factors on Human-Al Interactions in Head-Worn Displays. In *Proceedings of the 22nd IEEE International Symposium on Mixed and Augmented Reality (ISMAR 2023*), IEEE. (Acceptance rate: 32% - 128/396)

Hyrkas, J., Wilson, A.D., Tang, J., Gamper, H., Sodoma, H., Tankelevitch, L., Inkpen, K., Chappidi, S., and **Jones**, **B.** (2023). Spatialized Audio and Hybrid Video Conferencing: Where Should Voices be Positioned for People in the Room and Remote Headset Users? In *Proceedings of the 2023 ACM Conference on Human Factors in Computing Systems (CHI 2023)*, ACM. (Acceptance rate: 28% - 880/3182)

Jones, B., Maiero, J., Mogharrab, A., Aguilar, I.A., Adhikari, A., Riecke, B.E., Kruijff, E., Neustaedter, C., and Lindeman, R.W. (2020). FeetBack: Augmenting Robotic Telepresence with Haptic Feedback on the Feet. In *Proceedings of the 2020 ACM International Conference on Multimodal Interaction (ICMI 2020*), ACM, 194-203. (Acceptance rate: 29% - 65/159)

Heshmat, Y., **Jones, B.**, Xiong, X., Neustaedter, C., Tang, A., Riecke, B.E., and Yang, L. (2018). Geocaching with a Beam: Shared Outdoor Activities through a Telepresence Robot with 360 Degree Viewing. In *Proceedings of the 2018 ACM Conference on Human Factors in Computing Systems (CHI 2018)*, ACM. (Acceptance rate: 25.7% - 666/2592)

Neustaedter, C., **Jones, B.**, O'Hara, K., and Sellen, A. (2018). The Benefits and Challenges of Video Calling for Emergency Situations. In *Proceedings of the 2018 ACM Conference on Human Factors in Computing Systems* (CHI 2018), ACM. (Acceptance rate: 25.7% - 666/2592) - **Honourable Mention Award (top 5% of all submissions)**

Jones, B., Dillman, K., Tang, R., Tang, A., Sharlin, E., Oehlberg, L., Neustaedter, C., and Bateman, S. (2016). Elevating Communication, Collaboration, and Shared Experiences in Mobile Video through Drones. In *Proceedings of the 2016 ACM Conference on Designing Interactive Systems (DIS 2016)*, ACM, 1123-1135. (Acceptance rate: 26% - 107/418)

Jones, B., Witcraft, A., Bateman, S., Neustaedter, C., and Tang, A. (2015). Mechanics of Camera Work in Mobile Video Collaboration. In *Proceedings of the 2015 ACM Conference on Human Factors in Computing Systems (CHI 2015)*, ACM, 957-966. (Acceptance rate: 23% - 486/2120)

Book Chapters:

Jones, B., Tang, A., Neustaedter, C., Antle, A.N., and McLaren, E.S. (2020). Designing Technology for Shared Communication and Awareness in Wilderness Search and Rescue. In McCrickard, S., Jones, M., and Stelter, T. (Eds.), *HCI Outdoors: Theory, Design, Methods and Applications*, Springer, 175-194.

BRENNAN JONES | CV

^{*} Due to the fast-paced nature of research in my discipline, some conference publication venues are considered equivalent in rank to journals: https://scholar.google.com/citations?view_op=top_venues&hl=en&vq=eng_humancomputerinteraction

Neustaedter, C., Heshmat, Y., **Jones, B.**, Forghani, A., and Xiong, X. (2020). Shared Family Experiences over Distance in the Outdoors. In McCrickard, S., Jones, M., and Stelter, T. (Eds.), *HCI Outdoors: Theory, Design, Methods and Applications*, Springer, 155-174.

Prins Hankinson, S., **Jones, B.**, and Collie, K. (2017). Adapting Art Therapy for Online Groups. In Brooke, S.L. (Ed.), *Combining the Creative Therapies with Technology: Using Social Media and Online Counseling to Treat Clients*, Charles C. Thomas Publisher Ltd., 34-52.

Non-Archival Conference Papers (refereed):

Jones, B., Xu, Y., Li, Q., and Scherer, S. (2024). Designing a Proactive Context-Aware Al Chatbot for People's Long-Term Goals. In *Extended Abstracts of the 2024 ACM Conference on Human Factors in Computing Systems* (CHI 2024), ACM.

Zhang, Y., **Jones, B.**, Rintel, S., and Neustaedter, C. (2021). XRmas: Extended Reality Multi-Agency Spaces for a Magical Remote Christmas. In *Companion of the 2021 ACM Conference on Computer Supported Cooperative Work and Social Computing (CSCW 2021)*, ACM.

Jones, B., Zhang, Y., Wong, P.N.Y., and Rintel, S. (2020). VROOM: Virtual Robot Overlay for Online Meetings. In *Extended Abstracts of the 2020 ACM Conference on Human Factors in Computing Systems (CHI 2020)*, ACM. (Acceptance rate: 41.8% - 323/772)

Jones, B., Tang, A., Neustaedter, C., Antle, A.N., and McLaren, E.S. (2018). Designing a Tangible Interface for Manager Awareness in Wilderness Search and Rescue. In *Companion of the 2018 ACM Conference on Computer Supported Cooperative Work and Social Computing (CSCW 2018)*, ACM, 161-164. (Acceptance rate: 28% - 1847/6682)

Jones, B., Dillman, K., Manesh, S.A., Sharlin, E., and Tang, A. (2014). Designing an Immersive and Entertaining Pervasive Gameplay Experience with Spheros as Game and Interface Elements. In *Proceedings of the 2014 ACM SIGCHI Annual Symposium on Computer-Human Interaction in Play (CHI PLAY 2014)*, ACM, 425-426. (Acceptance rate: 30% - 233/778)

Jones, B., Prins Hankinson, S., Collie, K., and Tang, A. (2014). Supporting Non-Verbal Visual Communication in Online Group Art Therapy. In *Extended Abstracts of the 2014 ACM Conference on Human Factors in Computing Systems (CHI 2014)*, ACM, 1759-1764. (Acceptance rate: 31% - 1000/3200)

Doctoral Consortium (peer reviewed):

Jones, B. (2018). Designing for Distributed Collaboration in Wilderness Search and Rescue. In *Companion of the 2018 ACM Conference on Computer Supported Cooperative Work and Social Computing (CSCW 2018; Doctoral Colloquium*), ACM, 77-80.

Workshop Papers (peer reviewed):

Jones, B., Xu, Y., Hood, M.A., Kader, M.S., and Eghbalzadeh, H. (2023). Using Generative AI to Produce Situated Action Recommendations in Augmented Reality for High-Level Goals. In *GenAICHI 2023: Workshop on Generative AI and HCI at CHI 2023*.

Zhang, Y., **Jones, B.**, and Rintel, S. (2021). XRmas: Virtual Augmented Experience for Remote Family Meetings during Christmas. (Video abstract for workshop). In *Social VR: A New Medium for Remote Communication and Collaboration (Workshop at CHI 2021)*.

Jones, B., Zhang, Y., Wong, P.N.Y., Rintel, S., and Heshmat, Y. (2020). VR-Enabled Telepresence as a Bridge for People, Environments, and Experiences. In *Social VR: A New Medium for Remote Communication and Collaboration (Workshop at CHI 2020)*.

Zhang, Y. and **Jones, B.** (2020). Virtual Reality for Telecommuting. In *Social VR: A New Medium for Remote Communication and Collaboration (Workshop at CHI 2020)*.

Heshmat, Y., **Jones**, **B.**, and Neustaedter, C. (2020). 360° View for Sharing Geocaching Experience with a Telepresence Robot. In *Social VR: A New Medium for Remote Communication and Collaboration (Workshop at CHI 2020)*.

Jones, B., Tang, A., and Neustaedter, C. (2019). Drones for Remote Collaboration in Wilderness Search and Rescue. In *iHDI: International workshop on Human-Drone Interaction (Workshop at CHI 2019)*.

Jones, B., Tang, A., and Neustaedter, C. (2018). Designing Outdoor Remote-Communication Tools for Serious Collaborative Activities. In *HCI Outdoors: A CHI 2018 Workshop on Understanding Human-Computer Interaction in the Outdoors*.

Jones, B., and Tang, A. (2015). Improving Collaboration and Shared Experiences in Out-and-About Mobile Video Conferencing. In *Everyday Telepresence: Emerging Practices and Future Research (CHI 2015 Workshop)*.

Technical Reports:

Neustaedter, C., **Jones, B.**, O'Hara, K., and Sellen, A. (2017). An Analysis of Next Generation 9-1-1: Video Calling for Emergency Situations. *Connections Lab Technical Report 2017-0605-01*, Simon Fraser University.

Theses:

Jones, B. (2021). Designing Remote Collaboration Technologies for Wilderness Search and Rescue. *Ph.D. Dissertation*, University of Calgary.

Jones, B. (2016). Elevating Communication, Collaboration, and Shared Experiences between Peers in Mobile Video Communication using Drones. *M.Sc. Thesis*, University of Calgary.

Jones, B. (2014). Improving Collaboration in Online Group Art Therapy. B.Sc. Honours Thesis, Univ. of Calgary.

TALKS AND PRESENTATIONS

Research Methods for User-Centred Design: Thematic Analysis

Feb. 2025

Guest Lecture: INF2169H: User-Centred Information Systems Development, University of Toronto, Canada

Remote Collaboration in Mixed Reality

Oct. 2024

Guest Lecture: COSC2476-77: Mixed Reality, RMIT University, Melbourne, VIC, Australia (Online Talk)

Designing Technologies to Bridge People, Places, Spaces, and Information

Jun. 2024

Candidate Talk: Autodesk Research, Toronto, ON, Canada (Online Talk)

Candidate Talk: Department of Computer Science, Toronto Metropolitan University (TMU), Toronto, C	May 2024 N, Canada
Designing a Proactive Context-Aware Al Chatbot for People's Long-Term Goals CHI 2024 Poster, Honolulu, HI, USA	May 2024
Bridging People, Places, Spaces, and Data through Telepresence Candidate Talk: Department of Informatics, New Jersey Institute of Technology (NJIT), Newark, NJ, U	Mar. 2024 JSA
Bridging People, Places, Spaces, and Data through Telepresence Invited Talk: Design Lab, University of California San Diego (UCSD), La Jolla, CA, USA	Jun. 2023
Bridging People, Places, Spaces, and Data through Telepresence Invited Talk: Department of Computing Guest Lecture Series, Xi'an Jiaotong-Liverpool University, Suz	May 2023 zhou, China
Bridging People, Places, Spaces, and Data through Telepresence Invited Talk: Dynamic Graphics Project (DGP), Dept. Computer Sci., University of Toronto, Canada (Computer Sci., University of Computer S	Apr. 2023 Online Talk)
RescueCASTR: Exploring Photos and Live Streaming to Support Contextual Awareness in the Search and Rescue Command Post CSCW 2022 Paper Presentation, Online/Virtual Conference	Wilderness Nov. 2022
Bridging People, Places, Spaces, and Data through Telepresence Candidate Talk: Meta Reality Labs Research (RL-R), Redmond, WA, USA (Online Talk)	Jan. 2022
Belonging There: VROOM-ing into the Uncanny Valley of XR Telepresence CSCW 2021 Paper Presentation, Online/Virtual Conference	Oct. 2021
Bridging People and Places through Telepresence Candidate Talk: Microsoft Research (MSR) Cambridge, Cambridge, England, UK (Online Talk)	Apr. 2021
Bridging People and Places through Telepresence Candidate Talk: Microsoft Research (MSR), Redmond, WA, USA (Online Talk)	Apr. 2021
Bridging People and Places through Telepresence Invited Talk: Michigan Information Interaction (Mi2) Lab, University of Michigan, Ann Arbor, MI, USA (Mar. 2021 Online Talk)
FeetBack: Augmenting Robotic Telepresence with Haptic Feedback on the Feet ICMI 2020 Paper Presentation, Online/Virtual Conference	Oct. 2020
VR-Enabled Telepresence as a Bridge for People, Environments, and Experiences CHI 2020 Workshop Presentation, Online/Virtual Workshop Workshop: Social VR: A New Medium for Remote Communication and Collaboration	Apr. 2020
Remote Communication in Wilderness Search and Rescue GROUP 2020 Paper Presentation, Sanibel, FL, USA	Jan. 2020
Designing for Remote Communication, Collaboration, and Telepresence in the Outdoors Invited Talk: Participatory Information Technology (PIT) Research Centre, Aarhus Universitet, Aarhus	Oct. 2019

Positivity for Power Course straffer College of the	0.1.0040	
Designing for Remote Communication, Collaboration, and Telepresence in the Outdoors Invited Talk: ExSitu Group, Inria Saclay & Université Paris-Saclay, Orsay, France	Oct. 2019	
Drones for Remote Collaboration in Wilderness Search and Rescue CHI 2019 Workshop Presentation, Glasgow, Scotland, UK Workshop: iHDI: International workshop on Human-Drone Interaction	May 2019	
Designing a Tangible Interface for Manager Awareness in Wilderness Search and Rescue CSCW 2018 Poster, Jersey City, NJ, USA	Nov. 2018	
Designing for Distributed Collaboration in Wilderness Search and Rescue CSCW 2018 Doctoral Colloquium and Poster, Jersey City, NJ, USA	Nov. 2018	
Designing Outdoor Remote-Communication Tools for Serious Collaborative Activities CHI 2018 Workshop Presentation, Montréal, QC, Canada	Apr. 2018	
Workshop: HCI Outdoors: A CHI 2018 Workshop on Understanding Human-Computer Interaction in the Outdoors		
Elev. Communication, Collaboration, and Shared Experiences in Mobile Video through Drones Jun. 2016 DIS 2016 Paper Presentation, Brisbane, QLD, Australia		
Elev. Communication, Collaboration, and Shared Experiences in Mobile Video through Drones Feb. 2016 Invited Talk: Connections Lab (cLab), School of Interactive Arts & Tech., Simon Fraser Univ., Surrey, BC, Canada		
Mechanics of Camera Work in Mobile Video Collaboration CHI 2015 Paper Presentation, Seoul, South Korea	Apr. 2015	
Improving Collaboration and Shared Experiences in Out-and-About Mobile Video Conferencing Apr. 2015 CHI 2015 Workshop Presentation, Seoul, South Korea Workshop: Everyday Telepresence: Emerging Practices and Future Research Directions		
Designing an Immersive and Entertaining Pervasive Gameplay Experience with Spheros CHI PLAY 2014 Madness Presentation, Poster, and Demo, Toronto, ON, Canada	Oct. 2014	
Designing an Immersive and Entertaining Pervasive Gameplay Experience with Spheros SurfNet 2014 Poster and Demo, Calgary, AB, Canada	Oct. 2014	
Collaboration in Mobile Video Conferencing SurfNet 2014 Madness Presentation, Calgary, AB, Canada	Oct. 2014	
Supporting Non-Verbal Visual Communication in Online Group Art Therapy CHI 2014 Poster, Toronto, ON, Canada	Apr. 2014	
Non-Verbal Visual Communication in Online Art Therapy University of Calgary SU Undergraduate Research Symposium Poster, Calgary, AB, Canada	Nov. 2013	

OTHER CONTRIBUTIONS

Prototypes for Online Art Therapy Tools

Feb. 2019

Digital International Creative Arts Therapies Symposium (DICATS), Online/Virtual Conference

Presentation of work in collaboration with Sara Prins Hankinson, Kate Collie, and Anthony Tang.

Presented by Sara Prins Hankinson. https://youtu.be/S9QMUHkLRWU

COMMUNITY AND VOLUNTEER EXPERIENCE

Posters and Demonstrations Co-Chair

2025

Graphics Interface (GI) Conference

Member of the organizing committee for GI 2025, co-managing the posters and demonstrations tracks.

Program Committee (PC) Member

2025

ACM CUI Conference, Full Paper Track

Manage reviewers for the full paper track for the ACM CUI conference.

Conference and Journal Reviewer - multiple occasions

2014 - now

Conferences: CHI 2025, CHI 2024, Ubicomp-ISWC 2023, UIST 2023, CHI 2023, CSCW 2021, CHI 2021, CSCW 2020, RO-MAN 2020, DIS 2020, CHI 2020, GROUP 2020, UIST 2019, DIS 2019, CHI 2019, MobileHCI 2018, CSCW 2018, DIS 2018, CHI 2018, TEI 2018, ISS 2017, RO-MAN 2017, CHI 2017, CHI 2015

Journals: Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (PACM IMWUT), Proceedings of the ACM on Human-Computer Interaction (PACM HCI), IEEE Robotics and Automation Letters (RA-L), International Journal of Human-Computer Studies (IJHCS), Journal on Multimodal User Interfaces (JMUI)

Reviewed papers submitted to top international conferences and journals in the fields of Human-Computer Interaction (HCI), Computer-Supported Cooperative Work (CSCW), and Human-Robot Interaction (HRI).

Associate Chair (AC) - multiple occasions

2018 - 2021

ACM CHI Conference, Late-Breaking-Work (LBW) Track

Assign and manage reviewers for the LBW track for the ACM CHI conference.

Program Committee (PC) Meeting Student Volunteer Assistant – multiple occasions

2019 - 2020

ACM DIS Conference

Assist Session Chairs and the Technical Chairs during the PC meeting for the ACM DIS conference.

Student Volunteer - multiple occasions

2014 - 2020

Conferences: GROUP 2020, CHI 2019, CHI 2018, DIS 2016, CHI 2015, CHI PLAY 2014

Assisted with tasks that kept the conferences running. Duties included (but were not limited to): telepresence assistance; workshop assistance; session monitoring; and assistance with demo and poster receptions.

Telepresence Assistant

May 2019

ACM CHI Conference 2019

Assisted the telepresence chairs in providing opportunities to allow some attendees to attend and participate in conference and workshop activities remotely.

BRENNAN JONES | CV

Graduate College Scholar

Sep. 2018 - Dec. 2018

University of Calgary Graduate College

The College is a cohort of graduate students at the University of Calgary who strive to connect the university and city communities and promote discourse on important and challenging topics. As a member, I served on a subcommittee, helped organize events on and off campus, and volunteered in the community.

Residence Move-In Volunteer

Sep. 2012 and Aug. 2015

University of Calgary Residence Services, Calgary, AB, Canada

Helped residence students move their belongings into their suites on Move-In Day.

Volunteer - multiple occasions

Oct. 2011 - Aug. 2014

University of Calgary Centre for Community-Engaged Learning, Calgary, AB, Canada

Sample duties: helped build an elementary-school playground; helped sort clothing at the Mustard Seed; helped recruit for UCalgaryCares programs; helped sort flood-relief donations at the Siksika First Nation.

Volunteer Aug. 2013

Alberta Flood Aid Benefit Concert, Calgary, AB, Canada

Helped clean up the field; set up the VIP area; and directed parking.

Flood-Relief Volunteer Jun. 2013

The City of Calgary, Calgary, AB, Canada

Helped clean up homes in two neighbourhoods on two separate days after the June 2013 flooding in Calgary.

Relay for Life Volunteer – multiple occasions

Jun. 2008 - Apr. 2013

Canadian Cancer Society, Strathmore, AB, Canada and Calgary, AB, Canada

Helped set up and run five Relay for Life events in Strathmore and at the University of Calgary.

UCalgaryCares Costa Rica Volunteer

May 2012

University of Calgary Centre for Community-Engaged Learning, Isla Chira, Costa Rica.

Travelled with a group of other students to Costa Rica for two weeks to complete numerous volunteer projects for an elementary school and a lodge in a rural island community. The projects involved painting classrooms, sidewalks, fence posts, and bedrooms; repainting a basketball court; and building a bus stop.

Web Developer Sep. 2010 - Apr. 2011

Students in Free Enterprise at Mount Royal University (SIFE MRU), Calgary, AB, Canada

Set up and maintained the organization's team wiki; assisted with the development of the organization's website.

HONOURS AND AWARDS

Special Recognitions for Outstanding Paper Reviews:

2018 - 2024

CHI 2024 LBW, CHI 2023, CSCW 2021, CHI 2021, CSCW 2020, DIS 2019, CHI 2018

NSERC Postdoctoral Fellowship (PDF) (CAD\$45,000/year for up to two years)*

2022

NSERC Postgraduate Doctoral Scholarship (PGS-D) (CAD\$21,000/year)

2018 - 2021

_

^{*} Awarded but not disbursed.

Alberta Innovates Graduate Student Scholarship (CAD\$31,500/year)† Best Paper Honourable Mention Award, ACM CHI 2018 For paper "The Reposite and Challenges of Video Calling for Emergency Situations"	2018 - 2020 2018	
For paper "The Benefits and Challenges of Video Calling for Emergency Situations"	2017 2020	
U of C Eyes High Doctoral Recruitment Scholarship (CAD\$25,000/year)†	2017 - 2020	
Alberta Graduate-Student Scholarship (CAD\$3000)	2016	
U of C Computer Science Department Research Award (CAD\$1500)	2015	
Alberta Innovates-Technology Futures Graduate Student Scholarship (CAD\$26,500/year)	2014 - 2016	
NSERC Undergraduate Student Research Award (USRA) (CAD\$6000 for 4 months)	2014	
Queen Elizabeth II Graduate Scholarship (CAD\$10,800)*	2014	
U of C SU Undergraduate Research Symposium - GSA Award Honourable Mention (CAD\$500) 2013		
NSERC Undergraduate Student Research Award (USRA) (CAD\$5700 for 4 months)	2013	
Jason Lang Scholarship (CAD\$1000)	2012 and 2013	
Louise McKinney Scholarship (CAD\$2500)	2011	
MENTORSHIP AND SUPERVISION		
Ph.D. Students:		
Christina Wei (UToronto) – Paralinguistic Cues in Human-Agent Interactions (HAI)	2024	
Paula Aoyagui (UToronto) – Human-Agent Group Decision Making	2024	
Master's Students:		
Anshuta Kulkarni (UToronto) – Linguistic Manifestations of Social Dynamics in HAI	2024 - now	
Ashu Adhikari (SFU) – FeetBack: Robotic Telepresence with Haptic Feedback on Feet	2018 - 2020	
Undergraduate Students:		
Peter Dushniku (UToronto) – Human-Agent Decision Making, Agents for Online Debates	2024 - now	
Emily Su (UToronto) – Paralinguistic Cues in HAI, Agent Memory Mechanisms	2024 - now	
Alireza Mogharrab (SFU) – FeetBack: Robotic Telepresence with Haptic Feedback on Feet	2018 - 2020	
Sumin Kim (SFU) – FeetBack: Robotic Telepresence with Haptic Feedback on Feet	2018 - 2020	
Abhipsa Panigrahi (SFU) – FeetBack: Robotic Telepresence with Haptic Feedback on Feet	2018 - 2020	
Xiaoxuan (Anty) Xiong (SFU) – VR Robotic Telepresence for Outdoor Activities	2017 - 2018	
Research Interns:	2017 2010	
Feiyu Lu (Meta) – Impacts of User and System Factors on AI Recommendations in XR	2022 - 2023	
Geonsun Lee (Meta) – Remote Collaboration in Virtual Reality	2022 - 2023	
Research Assistants:		
Kelsey Stemmler (UToronto) – Agent Memory Mechanisms	2024 - now	
Hannah Nguyen (Meta) – Context-Aware Al Chatbots, Aria Data Collection for Smart Glasses	2023 - 2024	
Olivia Edgington (Meta) – Al-Generated Context-Aware Action Recommendations in AR	2022 – 2023	
Teaching Assistants:		
Long Hin (Lucas) Wong (UToronto) – INF2208H: User-Centred Systems for Communication	2024	

[†] Reduced to top-up.

BRENNAN JONES | CV

PRESS COVERAGE

CTV News (television) "High-tech tool could help rescue crews" https://bc.ctvnews.ca/video?clipId=2445911	May 2022
CTV News (article) "SFU researcher develops new tech-savvy search and rescue system" https://bc.ctvnews.ca/sfu-researcher-develops-new-tech-savvy-search-and-rescue-system-1.5910054	May 2022 <u>4</u>
Burnaby Now (article) "Researchers develop body cam tech for SAR at Burnaby's SFU" https://tinyurl.com/sar-tech-burnaby-now	May 2022
Metaphorigins (podcast) "S3E6: Tripping Takeoffs & The Interface of Art and Science" https://www.kjbmercurio.com/episode26	Apr. 2021
Microsoft Research (blog) "VROOM: Giving body to telepresence" https://aka.ms/AA8bj56	May 2020
Microsoft Vancouver (blog) "Connection is everything" http://web.archive.org/web/20201129041414/https://mcec.microsoft.ca/blog/connection-is-everything/	Feb. 2020
CBC Spark (radio) "It's a bird, it's a plane, it'sa drone video conferencing system!" http://www.cbc.ca/1.3270846	Oct. 2015
CBC News (article) "Drone study looks to revolutionize video-conferencing" http://www.cbc.ca/1.3209183	Aug. 2015

MEMBERSHIPS AND AFFILIATIONS

Association for Computing Machinery (ACM) (Professional Member)

ACM Special Interest Group on Computer-Human Interaction (SIGCHI) (Professional Member)

SELECTED SKILLS AND QUALIFICATIONS

Human-Computer Interaction:

UX Research, UX Design, Prototyping, Lab Experiments, Field Studies, Observation Studies, Interview Studies, Workshops, Survey Research, Contextual Inquiry, Ethnographic Methods, Qualitative Methods, Quantitative Methods, Mixed-Methods Research

Technologies and Domain-Specific Topics:

Large Language Models (LLMs), Generative AI, Prompt Engineering, Extended Reality (XR/AR/VR/MR) Development, Robotics Programming, Computer Vision, Hardware Prototyping, 3D Printing, Physical Prototyping, Arduino, VICON Motion Capture, Microsoft Kinect, WebRTC, Computer Graphics, Algorithms

Software engineering, programming languages, tools, platforms, and environments:

Unity, JavaScript, Node.js, Python, C#, .NET, Visual Studio, React, React Native, Swift, Objective-C, iOS, HTML, HTML5, CSS, Java, PHP, MySQL, C, C++, Assembly, Object-Oriented Design, Git

Other:

Teaching, Technical Communication, Video Editing, Photo Editing, Oral Communication