

Nikhita Joshi

PhD Student | HCI Researcher

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EDUCATION

Doctor of Philosophy (PhD), Computer Science (HCI)

University of Waterloo; Waterloo ON

January 2020 - present

- Human-computer interaction (HCI), working with Dr. Daniel Vogel
- Researching interactions with objects in spatial augmented reality.

Master of Mathematics (MMath), Computer Science (HCI)

University of Waterloo; Waterloo ON

September 2017 - December 2019

- Thesis-based program in human-computer interaction (HCI), with Dr. Daniel Vogel (**GPA = 97%**)
- Researched touch input along the edge of the table ([C1, T1]).
- Two first author conference papers ([C1, C2]) were accepted for publication.

Bachelor of Science (BSc), Computer Science, Commerce Minor

Mount Allison University; Sackville NB

September 2014 - May 2017

- Finished degree one year early, using International Baccalaureate (IB) credits
- Graduated with distinction, Dean's List throughout (**GPA = 93%**)

WORK EXPERIENCE

User Interface Researcher

Autodesk - UI Research Team; Toronto ON

May 2019 - September 2019

- Led an HCI research project with the User Interface Research Team.
- Explored the idea of time-bounded, 1-on-1 help sessions.
- This internship resulted in a 10-page, first author conference publication [C2].

Software Engineer

North Inc. - Prototyping Team; Waterloo ON

January - April 2019

- Designed and developed prototype applications for Focals smart glasses.
- Designed and conducted technical prototype evaluations and user studies.

Software Developer

J. D. Irving, Ltd. - Information Technology Department; Saint John NB

May - August 2017

- Conducted cost-benefit analysis of automation testing software, recommending savings > \$30,000.
- Initiated the use of CI/CD to streamline the team's development process.

Co-Founder and Vice President - Legal

Bagtown Brewing Company; Sackville NB

September 2016 - April 2017

- Created, built, and launched a business into the market while managing a team of 2 employees.
- Obtained federal, provincial, and distributor brewing licenses and company insurance.

Business Analyst

J. D. Irving, Ltd. - Information Technology Department; Saint John NB

May - August 2015

- Created interactive, visual dashboards using Tableau.
- Managed the company's risk register to track and monitor security threats and mitigation attempts.

TEACHING EXPERIENCE

Lab Instructor; University of Waterloo

September 2017 - present

Teacher's Assistant, Tutor; Mount Allison University

October 2015 - December 2016

PUBLICATIONS

Note about conference papers: In Human-Computer Interaction, conference proceedings are the preferred publication venue since they are timelier and typically have the greatest impact. Top-tier conferences are very selective with rigorous multi-stage reviews of full manuscripts creating high quality fully archival proceedings.

Note about venues: CHI (ACM Conference on Human Factors in Computing Systems) is recognized as a very top tier HCI conference (ranked #1 on Google Scholar). The average acceptance rate for CHI is 23%.

CONFERENCE PAPERS

- [C2] **Nikhita Joshi**, Justin Matejka, Fraser Anderson, Tovi Grossman, and George Fitzmaurice. 2020. *MicroMentor: Peer-to-Peer Software Help Sessions in Three Minutes or Less*. In Proceedings of the 2020 CHI Conference on Human Factors in Computing Systems (CHI '20, to appear)
- [C1] **Nikhita Joshi** and Daniel Vogel. 2019. *An Evaluation of Touch Input at the Edge of a Table*. In Proceedings of the 2019 CHI Conference on Human Factors in Computing Systems (CHI '19)

THESES AND DISSERTATIONS

- [T1] **Nikhita Joshi**. 2019. *Evaluating the Speed and Accuracy of Touch at the Edge of a Table*. UWSpace.

AWARDS AND RECOGNITIONS

- 2020 - 2022 **David R. Cheriton Graduate Scholarship** (institutional) — \$10,000 per year
Awarded to top PhD students based on academic excellence and research potential.
- 2020 **Provost Doctoral Entrance Award for Women** (institutional) — \$5,000
Awarded to top female PhD students based on academic excellence.
- 2020 - 2024 **Math Domestic Graduate Student Award** (institutional) — \$6,000 per year
Awarded to incoming Canadian graduate students.
- 2019 **Graduate Student Research Travel Assistantship** (institutional) — \$500
Awarded to support research-related travel.
- 2019 **Barbara Roth-Hayes Scholarship** (institutional) — \$2,000
Awarded to top female graduate students based on academic excellence.
- 2018 **Barbara Roth-Hayes Scholarship** (institutional) — \$5,000
Awarded to top female graduate students based on academic excellence.
- 2017 - 2019 **Math Domestic Graduate Student Award** (institutional) — \$5,000 per year
Awarded to incoming Canadian graduate students.
- 2017 **UW Provost Scholarship** (institutional) — \$15,000
Awarded to top graduate students based on academic excellence
- 2014 - 2017 **Garnet Scholarship** (institutional) — \$12,000 over 4 years
Awarded to undergraduate students based on academic excellence

SERVICE

- Peer Reviewer** 2020 - present
- Student Volunteer** 2019
CHI Conference; Glasgow, Scotland UK
- Supported various conference activities, 20 hours of service
- Math/CS Society Executive** 2015 - 2017
Mount Allison University; Sackville NB
- Organized social events for math and computer science students

Dance Teacher

Mount Allison University; Sackville NB

2015 - 2017

- Choreographed 2 routines and ran practices every week