

Nabila Chowdhury

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EDUCATION	University of Toronto , Toronto, ON, Canada <i>Doctor of Philosophy</i> , Faculty of Information CGPA: 4/4 <i>Fall 2022 - Present</i>
	University of Manitoba , Winnipeg, MB, Canada <i>Masters of Science</i> , Computer Science CGPA: 4/4 <i>Fall 2020 - Summer 2022</i>
	North South University Dhaka, Bangladesh <i>Bachelor of Science</i> , Computer Science and Engineering <i>Fall 2014- Summer 2018</i>

RESEARCH INTERESTS	<ul style="list-style-type: none">- Inclusive Technology Design for Marginalized Communities- Biases in Algorithmic Decision-making Technologies- AI and AR\VR- Qualitative and Quantitative Study Design- Intergenerational Interaction- Computer-Supported Cooperative Work
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PUBLICATIONS	Nabila Chowdhury , Anna Offenwanger, Theophanis Tsandilas, Fanny Chevalier, and Syed Ishtiaque Ahmed. 2026 [Under Review] “Teleporting through Memories: Designing Immersive Spaces for Narrating Personal Migration Experiences”.
	Nabila Chowdhury , Anna Offenwanger, Theophanis Tsandilas, Fanny Chevalier, and Syed Ishtiaque Ahmed. 2025. “MomentsVR: Accessible Immersive Spaces for Authoring Personal Narration”. In Proceedings of the CSCW Conference on Computer Supported Co-operative Work (CSCW '25), 6 Pages.
	Nabila Chowdhury , Marisol Wong-Villacres, Natasha Shokri, Syed Ishtiaque Ahmed, Cosmin Munteanu, and Negin Dahya. 2026 [Under Review]. “Repairing Memory with Care: Understanding Multigenerational Migrant Families Collaborative Work through (In)tangible Artifacts”. In Proceedings of the CSCW Conference on Computer Supported Co-operative Work (CSCW '26), USA. ACM, New York, NY, USA 17 Pages.
	Nabila Chowdhury , Natasha Shokri, Cibeles Herrera Valera, Azhagu Meena Sp, Carolina Reyes Marquez, Mohammad Rashidujjaman Rifat, Marisol Wong-Villacres, Cosmin Munteanu, Negin Dahya, and Syed Ishtiaque Ahmed. 2024. “Politics of the Past: Understanding the Role of Memory, Postmemory, and Remembrance in Navigating the History of Migrant Families.”. In Proceedings of the CHI Conference on Human Factors in Computing Systems (CHI '24), Honolulu, HI, USA. ACM, New York, NY, USA 17 Pages. https://doi.org/10.1145/3613904.3642496
	Nabila Chowdhury , Kuzminykh, A. ”An Exploration of Prompt-Based Biases in AI Art-Generated Tools” The Workshop on Generative AI and HCI (GenAICHI at CHI'23)
	Chowdhury N , Latulipe C, Young JE. “Listening Together while Apart: Intergenerational Music Listening”. In Companion Proceedings of the ACM Conference on Computer-Supported Cooperative Work, CSCW '21, poster Track. ACM. doi:10.1145/3462204.3481765.
Nabila Chowdhury , Celine Latulipe, James E. Young (2022). Music co-listening over video	

PROJECTS

VR & AR Facilitated Memory and Narratives Curation

- As a part of my PhD project, I am exploring how Virtual Reality (VR) and Augmented Reality (AR) can be used to support the curation and sharing of memory and personal narratives, particularly in the context of migration. We aim to understand how immersive technologies can help individuals and families preserve cultural knowledge and lived experiences across generations. As the first author, my current role involves conducting co-design workshops with migrant participants, creating virtual environments in VR, analyzing user experiences, and reviewing relevant HCI and memory studies literature. Through these efforts, we hope to inform the design of accessible VR/AR tools that empower people to tell their stories and maintain cultural continuity.

-Keywords: Virtual Reality, Immigrants in Canada; VR Technology Design; Co-curation; Shared Experience; Culture and History of Immigrants; Memory Preservation.

Culture, Memory, Migration, and Technology

Supervisors: Dr. Negin Dahya, Dr. Cosmin Munteanu, Dr. Ishtiaque Ahmed Sep '22 - Dec '25

- In this project, we are looking into how grandparents and grandchildren preserve their memory and culture and share with each other, as migration might happen in different contexts. We are also trying to understand what role technology might play in facilitating intergenerational memory curation. As the first author and one of the Research Assistants, my current role involves doing focus groups and interviews with multiple communities, thematic analysis data, a literature review and conducting a systematic analysis of variation migrant contexts. From this literature review and user studies, we hope to design intergenerational technologies to facilitate the preservation of memory and culture.

-Keywords: Immigrants in Canada; Intergenerational Technology Design; Co-curation; Shared Experience; Culture and History of Immigrants; Memory Preservation.

Prompt Based Bias in AI Generated Art

Supervisor: Dr. Anastasia Kuzminykh, in Collaboration with Naver January '23 - August '23

- Being an emergent technology, AI powered tools is now being incorporated in many decision making and creative process. In this project I am looking into prompt generated bias in AI art generation tools to understand besides the inherited system bias, how bias outcome in these tools might get triggered due to users input. Through this work I hope to support guidance for users in formulating their prompts to get better AI art generated outcome.

-Keywords: AI Art Generation Tool, Prompt based interaction, AI-human interaction, AI Art.

Older Adults' Perception on Conversational Agents

Supervisors: Dr. Anastasia Kuzminykh

June '22 - Sep '22

- This project investigated how older adults perceive the voices of the current smart speakers (e.g. Alexa, Google Home, etc.), including the users' preferences of voice characteristics and specifics and underlying mechanisms of interaction preferences. In particular, the aim of this project is to investigate older adults' perceptions and preferences in the personalities and conversation styles of current smart speakers in order to better understand how to design such systems to meet older adults' needs. In this project, my role was to conduct a literature review, conduct a user study, and collect and analyze data. Currently, this paper is under submission.

-Keywords: Conversational user interfaces, Older Adults and CA, Qualitative and Quantitative Study.

Masters Thesis: Exploring the Use of Music to Facilitate Engaging Intergenerational Conversation between Older Adults and Grandchildren

Supervisors: Dr. Celine Latulipe, Dr. James E. Young

Sep '20 - Aug '22

- In my master's thesis I investigated how grandparents and teen grandchildren can use technology to be online together and share a conversation around their favorite music. This is an exploratory study to understand both the social and technical barriers that might make having such interactions difficult for grandparents and teen grandchildren, with an aim to design technologies to support intergenerational co-listening in the future. This work is currently under submission.

-**Keywords:** Older Adults; Intergenerational Conversation; Co-listening; Shared Experience; Collaborative Music Listening; Synchronous Communication.

TEACHING
EXPERIENCES

Instructor CCT 477 (UX Design- Understanding Users)	<i>Summer '24</i>
INFH 2191 (User Interface Design)	<i>Winter '24</i>
INFH 2171 (Usability Assessment: Concepts, Methods, and Tools)	<i>Winter '24</i>
INFH 2169 (User-Centred Information Systems Development)	<i>Winter '24, Winter '23</i>
INFH 1602 (Fundamentals of UX)	<i>Fall '23</i>
INFH 2040 (Project Management)	<i>Summer '23</i>
INFH 2170 (Information Architecture)	<i>Summer '23</i>
INFH 1339 (Introduction to Computational Thinking)	<i>Fall '22</i>
INFH 1003 (Information Systems, Services, and Design)	<i>Fall '22</i>
COMP 1010 (Introductory Computer Science)	<i>Winter '22</i>

ACADEMIC
HONORS

- Inclusive Excellence Research Grant Program**, University of Toronto - 2026
 - Ontario Graduate Scholarship (OGS)**, University of Toronto - 2025
 - Delta Kappa Gamma World Fellowship (DKG)**, University of Toronto - 2023-2024
 - Toronto Human-AI Summer Research School 2022:** Selected as one of the participants to work in the project- "Inclusive Interactions with Smart Speakers for Marginalized Populations".
 - AGE-WELL EPIC Summer Institution 2022:** Selected as one of the participants to attend the institution at Prince George, BC.
 - UIST Student Innovation Competition 2021:** Selected as one of the 12 teams.
 - Faculty of Graduate Studies Research Completion Scholarship**, University of Manitoba - Dec, 2021
 - International Graduate Student Entrance Scholarship (IGSES)**, University of Manitoba - Sep, 2020
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POPULAR PRESS Up To Speed with Faith Fundal, “Wanted...teenagers who are willing to listen to music with their
COVERAGE grandparent - all in the name of science” CBC Radio, October 06 2021, [<https://www.cbc.ca/listen/live-radio/1-111-up-to-speed/clip/15870695-wanted...teenagers-willing-listen-music-grandparent-name-science>]

ACADEMIC
SERVICE

Affiliated with the University of Waterloo (TAG Lab and RIA)

Reviewer at CHI GenAI Workshop Track (2024)

Reviewer at CHI Full and Short Paper (2024)

Reviewer at CHI Paper and Case Study tracks (2024,2023)

Reviewer at CHI Late-Breaking Work (2024,2022)

PROFESSIONAL
EXPERIENCE

Course Instructor-CCT 477 UX Design Understanding Users at University of Toronto, Mississauga *Summer 2024*

Software Engineer at Service Engine, Dhaka, Bangladesh *Jan '19 - Mar '20*

Internship on Android at ZS Solutions, Dhaka, Bangladesh *Sep '18 - Dec '19*
