MOHI REZA

PhD Candidate in Computer Science, University of Toronto

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RESEARCH INTERESTS

Human-Computer Interaction; Human-AI Interaction; Adaptive Experimentaiton; Education Technology

EDUCATION

University of Toronto   Sep 2020 - Present
Ph.D. in Computer Science   *Toronto, ON*
Adviser: Joseph Jay Williams, Committee Members: Tovi Grossman, Olivier St. Cyr, Rene Kizilcec

University of British Columbia   Sep 2018 - Aug 2020
M.Sc. in Computer Science   *Vancouver, BC*
Adviser: Dongwook Yoon, Committee Members: Joanna McGrenere, Bryan Gick

BRAC Univeristy   Jan 2014 - Dec 2017
B.Sc. in Computer Science, Economics   *Dhaka, Bangladesh*
Ranked 1st in CS Program, class of 2017-18

RELEVANT RESEARCH OR WORK EXPERIENCE

Graduate Research Assistant, *U of T Computer Science*,   *September 2020 – Present*
Dynamic Graphics Project Lab   *Toronto, Canada*

Intern Associate Researcher, *Huawei Canada*   *May 2022 – January 2023*
Human-Machine Interaction Lab   *Toronto, Canada*

Graduate Research Assistant, *UBC Computer Science*   *September 2018 – August 2020*
Multimodal User Experience Lab   *Vancouver, Canada*

Programmer, *Southtech Group*   *March 2018 – July 2018*
Full-stack .Net Developer   *Dhaka, Bangladesh*

PUBLICATIONS

Full-Length Research Papers

Note: *In Human-Computer Interaction and related subfields, conferences are often considered more prestigious and competitive than journals, like many fields within Computer Science. These conferences undergo a thorough double-blind peer-review process, are archived and well-cited in the field. The top conferences in HCI are known for being highly selective.*

[P7] **Mohi Reza**, Nathan Laundry, Ilya Musabirov, Peter Dushniku, Michael Yu, Kashish Mittal, Tovi Grossman, Michael Liut, Anastasia Kuzminykh, and Joseph Jay Williams. 2024. *"ABScribe: Rapid Exploration of Multiple Writing Variations in Human-AI Co-Writing Tasks using Large Language Models."*, In Proceedings of The ACM Conference on Human Factors in Computing Systems **(CHI 2024)**, Acceptance Rate: 26%.

[P6] **Mohi Reza**, Angela Zavaleta Bernuy, Emmy Liu, Tong Li, Zhongyuan Liang , Calista K Barber, Joseph Jay Williams, *"Exam Eustress: Designing Brief Online Interventions for Helping Students Identify Positive Aspects of Stress"*, In Proceedings of The ACM Conference on Human Factors in Computing Systems **(CHI 2023)**, Acceptance Rate: 28%.

[P5] Rachel Phinnemore, **Mohi Reza**, Blaine Lewis, Karthik Mahadevan, Bryan Wang, Michelle Annett, Daniel Wigdor, *"Creepy Assistant: Development and Validation of a Scale to Measure the Perceived Creepiness of Voice Assistants"*, In Proceedings of The ACM Conference on Human Factors in Computing Systems **(CHI 2023)**, Acceptance Rate: 28%.

[P4] Ananya Bhattacharjee, Haochen Song, Xuening Wu, Justice Tomlinson, **Mohi Reza**, Akmar Ehsan Chowdhury, Nina Deliu, Thomas Price and Joseph Jay Williams, *"Informing Users about Data Imputation: Exploring the Design Space for Dealing With Non-Responses"* In Proceedings of the AAAI Conference on Human Computation and Crowdsourcing **(HCOMP 2023)** Acceptance Rate: 28%.

[P3] **Mohi Reza**, Juho Kim, Ananya Bhattacharjee, Anna N. Rafferty, Joseph Jay Williams, *"The MOOClet Framework: Unifying Experimentation, Dynamic Improvement & Personalization in Online Courses"*, In Proceedings of The ACM Conference on Learning @ Scale, **(L@S 2021)**, Acceptance Rate: 38%.

[P2] **Mohi Reza**, Dongwook Yoon, *"Designing CAST: A Computer-Assisted Shadowing Trainer for Self-Regulated Foreign Language Listening Practice"*, In Proceedings of The ACM Conference on Human Factors in Computing Systems (**CHI 2021**), Acceptance Rate: 26%.

[P1] Yelim Kim, **Mohi Reza**, Dongwook Yoon, Joanna McGrenere, Dongwook Yoon *"Designers Characterize Naturalness in VUIs: Their Goals, Practices, and Challenges"*, In Proceedings of The ACM Conference on Human Factors in Computing Systems (**CHI 2021**), Acceptance Rate: 26%.

Workshop Papers

[W3] **Mohi Reza**, Ilya Musabirov, Michael Liut, Joseph Jay Williams *"Leveraging a Human-AI Co-Writing Interface for Digital Experimentation on Content Variations in Education & Beyond"* 2023 Conference on Digital Experimentation @ MIT (**CODE@MIT 2023**)

[W2] **Mohi Reza**, Ilya Musabirov, Michael Liut, Nathan Laundry, Joseph Jay Williams, *"A/B Testing as a Pedagogical Tool for Experiment-Inspired Design in HCI Classrooms"*, In Proceedings of The 5th Annual Symposium on HCI Education (**EduCHI 2023**)

[W1] **Mohi Reza**, Akmar Chowdhury, Aidan Li, Mahathi Gandhamaneni, Joseph Jay Williams, *"Experimenting with Experimentation: Rethinking The Role of Experimentation in Educational Design"*, 3rd Annual Workshop on A/B Testing and Platform-Enabled Learning Research at The ACM Conference on Learning @ Scale (**L@S 2022**)

HONORS & AWARDS

- **Robert E. Lansdale/Okino Computer Graphics Graduate Fellowship** *2024*
  Department of Computer Science at University of Toronto
  Based on the academic merit of my doctoral research. Valued around 2000 CAD.

- **Wolfond Scholarship in Wireless Information Technology** *2023*
  Department of Computer Science at University of Toronto
  Based on the academic merit of my doctoral research. Valued around 5000 CAD.

- **$1M XPRIZE Digital Learning Challenge Winner** *2021-2023*
  Team Adaptive Experimentation Accelerator
  Awarded 500,000 USD Grand Prize for running field experiments in online courses.

- **University of British Columbia International Tuition Award** *2018-2020*
  School of Graduate Studies
  Awarded 6,400 CAD in recognition of academic achievement

- **Well Said Award, 2018 & 2019 DFP Design Showcase** 2019
  Department of Computer Science at University of British Columbia
  *Awarded **two years** in a row for best science communication (project pitch)*

- **Vice Chancellor's Gold Medal** *2019*
  Department of Computer Science at BRAC University
  *Awarded at the 13th Convocation for **Ranking 1st** in the CS Program, Class of 2017-18*

- **Performance Based Scholarships** *2015-2017*
  Department of Computer Science at BRAC University
  Awarded tuition waivers worth over 200,000 BDT for maintaining a high CGPA.

PROFESSIONAL SERVICE

Paper Reviewing

- **CHI**: ACM CHI Conference on Human Factors in Computing Systems
- **CSCW**: ACM SIGCHI Conference on Computer-Supported Cooperative Work & Social Computing
- **SIGCSE**: ACM Technical Symposium on Computer Science Education
- **JCSS**: ACM Journal on Computing and Sustainable Societies
- **JEDM**: Journal of Educational Data Mining
- **IJHCS**: International Journal of Human-Computer Studies
- **IJHCI**: International Journal of Human-Computer Interaction

Invited Talks & Panels

- **AAAI '24:** *Panelist*, "Prioritizing Use Cases for Equitable Impact" at the Workshop on AI for Education (AI4ED) *2024*
- **UPitt:** *Research Talk*, "Perpetually Enhancing Digital Learning through Field Experimentation"at the PAWS Lab *2023*
- **UBC:** *Speaker*, DFP Design Showcase Alumni Session *2023*
- **UBC:** *Judge*, DFP Design Showcase Student Research Demo Presentations *2023*
- **U of T:** *Panelist*, workshop on applyoing for graduate studies in Computer Science *2022*
- **U of T:** *Training Session*, "Getting involved in HCI research as an undergrad student" at the PRISM program *2022*
- **UBC:** *Research Talk*, "Experiment-Driven Improvement & Personalization of Online Courses" at the MUX Lab *2022*
- **UBC:** *Guest Lecture*, "Computer-Assisted Language Learning using Shadowing"at the Department of Linguistics *2021*

Event Organization

- **CHI '23:** *Co-Organizer*, Workshop on Integrating Individual & Social Contexts into Self-Reflection Technologies *2023*
- **SIGCSE '23:** *Co-Organizer*, Workshop on Designing, Deploying, & Analyzing Adaptive Educational Experiments *2023*
- **U of T:** *Panel Moderator*, U of T CS Graduate Visit Week Student Panel *2023*
- **CMU:** *Mentor*, LearnLab Summer School Educational Data Mining Track *2023*
- **UBC:** *Special Event Co-Chair*, UBC DFP Graduate Summer School Workshop and Industry Panel on E-Portfolios. *2019*
- **IEEE:** *Project Lead*, IEEE BDS Anticlockwise Program on Developing Inter-Branch Training Sessions *2017*
- **IEEE:** *Content Team Lead*, IEEE BDS SYWC Congress *2017*

Committee Memberships & Leadership

- **Program Committee Member, UBC DFP CREATE Program** *2019*
  Invited to represent MSc students in my cohort for DFP's NSERC-funded CREATE program
- **Student Activities Committee Member, IEEE Region 10 (Asia-Pacific)** *2018*
  Hosted international meetings and webinars with IEEE members across Asia Pacific.
- **Student Activities Committee Member, IEEE Bangladesh Section** *2017*
  *Researched and wrote Bangladesh's **first successful** IEEE Foundation grant, worth **10,000 USD***
- **Chairperson, IEEE BRAC University Student Branch** *2017*
  Lead a team of 5 branch officers to manage a student body of 70+ IEEE Members.

Departmental Service

- **Co-Webmasters, U of T Dynamic Graphics Project Lab** *2023-24*
  Maintained & updated the DGP lab website
- **Graduate Student Mentor, U of T PRISM Program** *2022-24*
  Taught CS research skills to 100+ undergraduate students at U of T from underrepresented groups.
- **Graduate Admissions Reviewer, U of T Computer Science** *2021-23*
  Reviewed 100+ applications for prospective PhD and MSc students in HCI and ML.
- **Graduate Student Mentor, U of T Graduate Application Assistance Program (GAAP)** *2022-23*
  Helped six prospective students from underrepresented groups in CS with grad school admissions.

TEACHING EXPERIENCE

Course Instructor, Computer Science at University of Toronto

- CSC108 Introduction to Programming in Python *Fall 2023 & Winter 2024*

Graduate Teaching Assistant, Computer Science at University of Toronto

- CSC108: Introduction to Programming in Python   *Fall, Winter, Summer 2021, Fall, Summer 2022, Winter 2023*
- CSC343 Introduction to Databases   *Winter 2023*
- CSC2552 Topics in Computational Social Science: AI, Data, and Society   *Winter 2022*
- CSC488: Compilers and Interpreters   *Winter 2021*
- CSC2514/428: Human-Computer Interaction   *Winter 2021*

Graduate Teaching Assistant, Computer Science at University of British Columbia

- CPSC 121: Models of Computation   *Winter 2018, 2019, Summer 2019 (Lead TA)*

Undergraduate Teaching Assistant, Computer Science & Engineering at BRAC University

- CSE230: Discrete Mathematics   *Summer, Fall 2016*
- CSE161: Introduction to Programming in Java   *Spring, Summer, Fall 2017*

SUPERVISION & MENTORSHIP

Undergraduate Students at U of T:

- Sergio Perez (Winter 2024-Present)
- Jessica Li (Fall 2023-Present)
- Yuming Huang (Fall 2023-Present)
- Jeb Thomas-Mitchell (Winter 2023-Present)
- Peter Dushniku (Winter 2023-Present)
- Michael Yu (Winter 2023-Present)
- Minyi Ma (Winter 2022-Fall 2022, next: Tech Analyst, Morgan Stanley)
- Calista Barber (Winter 2021-Fall 2022)
- Emmy Liu (Summer 2020-2021, next: PhD Student, CMU)
- Zhongyuan Liang (Winter 2021-Fall 2022, next: PhD Student, UC Berkley)

TECHNICAL SKILLS

Python ◇ JavaScript ◇ React ◇ CSS ◇ HTML ◇ Java ◇ C# ◇ PHP ◇ SQL ◇ Git

REFERENCES

Joseph Jay Williams
Assistant Professor, University of Toronto
williams@cs.toronto.edu

Dongwook Yoon
Associate Professor, University of British Columbia
yoon@cs.ubc.ca