

Romina Mahinpei

✉ rmahinpei@princeton.edu

🌐 [rmahinpei.github.io](https://github.com/rmahinpei)

🐙 [rmahinpei](https://github.com/rmahinpei)

🌐 [rmahinpei](https://www.linkedin.com/in/rmahinpei)

EDUCATION

M.S.E. in Computer Science

Princeton University

2024 – 2026

GPA: 4.0 / 4.0

- **Research interests:** human-centered AI, computational social science, social computing

B.Sc. in Honours Computer Science with a Mathematics Minor

The University of British Columbia (UBC)

2020 – 2024

GPA: 4.0 / 4.0

PUBLICATIONS

1. **Romina Mahinpei**, Manoel Horta Ribeiro, Mae Milano. 2025. *Interactive Theorem Provers for Proof Education*. [Paper]. In Proceedings of the 2025 ACM SIGPLAN International Symposium on SPLASH-E (SPLASH-E '25). DOI: [10.1145/3758317.3759679](https://doi.org/10.1145/3758317.3759679).
2. Ivan Orozco Vasquez*, **Romina Mahinpei***, Nouredine Elouazizi, Cristina Conati. 2025. *An Emergent Bottom-Up Categorization of Students' LLMs Usage in an Undergraduate Research Course*. [Paper]. Artificial Intelligence in Education (AIED 2025). Lecture Notes in Computer Science, Volume 15881. DOI: [10.1007/978-3-031-98462-4_17](https://doi.org/10.1007/978-3-031-98462-4_17).
3. Adam Craig Pocock, Joseph Wonsil, **Romina Mahinpei**, Jack Sullivan, Margo Seltzer. 2025. *Provenance Design and Evolution in a Production ML Library*. [Poster]. Championing Open-source DEvelopment in ML Workshop @ ICML25 (CODEML @ICML 2025). OpenReview: <https://openreview.net/forum?id=VrbDf3UDgv>.
4. **Romina Mahinpei***, Iris Xu*, Steven Wolfman, and Firas Moosvi. 2025. *A Generalized Framework for Describing Question Randomization*. [Paper]. In Proceedings of the 2025 ACM Conference on International Computing Education, Volume 1 (ICER 2025). DOI: [10.1145/3702652.3744222](https://doi.org/10.1145/3702652.3744222).
5. **Romina Mahinpei***, Iris Xu*, Steven Wolfman, and Firas Moosvi. 2024. *A Generalized Framework for Describing Question Randomization*. [Poster]. In Proceedings of the 55th ACM Technical Symposium on Computer Science Education, Volume 2 (SIGCSE TS 2024). DOI: [10.1145/3626253.3635599](https://doi.org/10.1145/3626253.3635599).
6. **Romina Mahinpei**, Chen Greif. 2024. *Mixed Precision MINRES*. [Paper]. SIAM Undergraduate Research Online, Volume 17 (SIURO). Society for Industrial and Applied Mathematics. DOI: [10.1137/24s1678489](https://doi.org/10.1137/24s1678489).

AWARDS

McGraw Center for Teaching & Learning Fellowship | Princeton University

2024

- Awarded for the 2024-2025 academic year to support the research, design, and development of Princeton University's STEM pedagogical resources.

Academic Award of Excellence | Department of Computer Science, UBC

2024

- Awarded to the student with the highest graduating average of the B.Sc. in Honours Computer Science.

Markus Meister Memorial Prize | Department of Computer Science, UBC

2024

- Awarded to the graduating student with the highest standing in the final year of the B.Sc. in Computer Science.

Trek Excellence Scholarship for Continuing Students | UBC

2021-2023

- Awarded yearly to domestic undergraduate students in the top 5% of their year, faculty, and school.

Schulich Leader Scholarship | The Schulich Foundation

2020

- Four-year undergraduate STEM scholarship awarded every year to a total of 100 Canadian high school seniors based on academic performance, leadership potential, and community involvement.

RESEARCH EXPERIENCE

Humans & Machines Lab | Dr. Manoel Horta Ribeiro | Princeton University 01/2025 – Present

- Studying the potential of large language models (LLMs) as companions to teaching assistants for grading and feedback provision tasks in theoretical, proof-based courses.
- Studying the long-term influence of YouTube's recommendation algorithm on public perceptions of veganism.

Human-AI Interaction Lab | Dr. Cristina Conati | UBC 01/2024 – 08/2025

- Studied students' self-reported LLM usage patterns in an undergraduate research course and developed a categorization of students' LLM usage patterns.
- Studied the potential of collaborative filtering algorithms in providing personalized sets of practice questions in automated assessment systems using student performance data.

Scientific Computing Lab | Dr. Chen Greif | UBC 05/2023 – 05/2024

- Studied the potential of mixed precision arithmetic as an efficient preconditioning strategy for solving saddle-point linear systems using the Minimal Residual (MINRES) method while maintaining accuracy.
- Proposed, implemented, and compared the speed-up of two mixed precision variants of MINRES in CUDA across a range of saddle-point linear systems arising from fluid dynamics.

Systopia Lab | Dr. Margo Seltzer | UBC 01/2022 – 01/2023

- Studied the current state of data workflows across users from academia and industry and identified ways in which data provenance could simplify those workflows.
- Designed, implemented, and tested the Model Card package for [Tribuo](#), Oracle's open-source Java ML library, to allow Tribuo users to create partially automated machine learning model documentation.

TEACHING EXPERIENCE

Introductory Machine Learning | Princeton University 09/2024 – Present

- Assisting students in COS 324, Princeton's introductory machine learning course.
- Hosting one-hour-long office hours once a week, holding one-hour-long tutorials once a week, creating exam questions, and completing administrative tasks as the course's head teaching assistant.

Operating Systems | UBC 09/2023 – 04/2024

- Assisted students in CPSC 313, UBC's computer hardware and operating systems course.
- Hosted one-hour-long office hours once a week, held one-hour-long tutorials once a week, managed the team of teaching assistants responsible for creating randomized assessment questions using the PrairieLearn system.

Software Engineering | UBC 09/2022 – 04/2023

- Assisted students in CPSC 210, UBC's software construction and development course.
- Hosted one-hour-long office hours once a week, held two-hour-long labs twice a week, and graded exams.

Differential & Integral Calculus | UBC 09/2021 – 04/2022

- Assisted students in differential and integral calculus in Science One, an immersive program emphasizing the integration of different scientific disciplines and ranking as UBC's highest level of first-year science.
- Hosted one-hour-long office hours twice a week, held exam review sessions, and graded exams.

WORK EXPERIENCE

Software Engineering Intern | Microsoft 06/2025 – 08/2025

- Interned as a software engineer for one of Xbox's **AI engineering** teams.
- Implemented a context-aware chat participant for the Visual Studio Code Copilot to assist developers in partner teams with using our libraries integrating data experimentation features into their codebases.

Software Engineering Intern | Microsoft 06/2024 – 08/2024

- Interned as a software engineer for one of Xbox's **data experimentation** teams.
- Implemented new Semantic Kernel plugins for the team's Copilot, defined metrics to evaluate the success of the plugins, and created a Power BI report to summarize and visualize the defined metrics.

Software Engineering Intern | Microsoft

06/2023 – 08/2023

- Interned as a software engineer for one of Xbox's **data engineering** teams.
- Defined metrics to track the availability of core streams and implemented the pipelines and a Power BI report to summarize and visualize the defined metrics.

Software Engineering Intern | Microsoft

06/2022 – 08/2022

- Interned as a software engineer for one of Xbox's **services and operations** teams.
- Defined and implemented a new feature to personalize users' gaming experiences.