RUNLONG "HARRY" YE

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RESEARCH INTERESTS

Human-Computer Interaction, Computing Education, Human-AI Interaction, Information Visualization, Education Technologies

My research studies how interactive AI tools can support critical engagement, responsible AI use, reflection, and evidence-centred decision-making.

EDUCATION

Ph.D. in Computer Science Sep. 2024 – Present
Department of Computer Science, University of Toronto
Advisors: Prof. Michael Liut, Prof. Carolina Nobre
Area: Human-Computer Interaction

B.Sc. in Computer Science Sep. 2019 – Jun. 2024
Department of Computer Science, University of Toronto

RESEARCH & PROFESSIONAL EXPERIENCE

Graduate Researcher Jan. 2023 – Dec. 2023; Sep. 2024 – Present
Dynamic Graphics Project (DGP) Lab, University of Toronto *Toronto, ON*

- Ph.D. work: study how AI can promote critical engagement and accountability for human reasoning, through both the design of interactive AI systems and empirical studies of AI use, in ***research workflows***, including collaborative qualitative analysis (CHIWORK '25 [C.6]; CHI '26 [C.10]), systematic literature review (IUI '26 [C.9]), and academic reading (VL/HCC '25 [C.7]); and in ***computing education***, including personalized exercises (ITiCSE '26 [C.12]), writing feedback (AIED '26 [C.13]), students' use of generative AI (SIGCSE '26 [C.8]), AI-generated code (Koli Calling '26 [C.14][W.4]), transparent AI coding agents (COLM '25 Workshop [W.1]), and AI attribution and disclosure norms (CHI '26 Workshop [W.2]; FAccT '26 CRAFT Report [W.3]).
- Undergraduate work: contributed to CodeAid, a classroom-deployed LLM programming assistant; analyzed interaction logs, survey data, and interview transcripts from a 700-student class, leading to CHI 2024 [C.5].

Undergraduate Researcher Aug. 2020 – Jun. 2024
Department of Computer Science, University of Toronto *Toronto, ON*

- Designed and evaluated scalable computing education interventions, including reminder emails, reflective learning activities, and student-instructor communication. Leading to publications at SIGITE, Koli Calling, SIGCSE, and DIS [C.1]–[C.4].

Software Developer May 2022 – May 2023
Oracle *Toronto, ON*

- Modernized enterprise legacy web application using React and OJET, maintained 20+ projects, and migrated core services to Kubernetes to improve scalability and maintainability.
- Developed 20+ end-to-end and asynchronous API tests using Java, Selenium WebDriver, and C#, improving test coverage and development reliability.

FULL CONFERENCE PAPERS

[C.14] **Ye, R.**, Fan, J., Zavaleta Bernuy, A., Karnalim, O., Denny, P., Leinonen, J.*, & Liut, M.* (2026). Correctness, Convergence, and AI-Generated Code Detection: A Longitudinal Study of Student and Large Language Model Code in Introductory Programming. In *Proceedings of the 26th Koli Calling International Conference on Computing Education Research (Koli Calling '26)*. (12 pages). [28% acceptance rate]

[C.13] **Ye, R.***, Liu, S.*, Simion, B., Eaton, C., & Liut, M. (2026). A Comparative Study of Technical Writing Feedback Quality: Evaluating LLMs, SLMs, and Humans in Computer Science Topics. In *Proceedings of the International Conference on Artificial Intelligence in Education (AIED '26)*. (15 pages). [16% acceptance rate (full paper)]

[C.12] **Ye, R.***, Ortiz, F.*, & Liut, M. (2026). Beyond One-Size-Fits-All Exercises: Personalizing Computer Science Worksheets with Large Language Models. In *Proceedings of the 31st ACM Conference on Innovation and Technology in Computer Science Education (ITiCSE '26)*. (7 pages). [25% acceptance rate]

[C.11] Sibia, N., Wen, J., Zhang, Z., **Ye, R.**, Jung, J., Musabirov, I., Simion, B., Suárez, C. A., Vrbik, P., Petersen, A., Zavaleta Bernuy, A., & Liut, M. (2026). SQL Beyond Querying: Scaffolded DDL and DML Practice with Immediate Feedback. In *Proceedings of the ACM Conference on Innovation and Technology in Computer Science Education (ITiCSE '26)*. (7 pages). [25% acceptance rate]

[C.10] **Ye, R.**, Huang, O., Lee, P. Y. K., Liut, M., Nobre, C., & Kong, H. K. (2026). Reflexis: Supporting Reflexivity and Rigour in Collaborative Qualitative Analysis through Design for Deliberation. In *Proceedings of the 2026 CHI Conference on Human Factors in Computing Systems (CHI '26)*. (31 pages). [25% acceptance rate]

[C.9] **Ye, R.**, Sibia, N., Zavaleta Bernuy, A., Zhu, T., Nobre, C., Pammer-Schindler, V., & Liut, M. (2026). From Toil to Thought: Designing for Strategic Exploration and Responsible AI in Systematic Literature Reviews. In *Proceedings of the 31st International Conference on Intelligent User Interfaces (IUI '26)*. (22 pages). [20% acceptance rate]

[C.8] Hou, X., Xiao, R., **Ye, R.**, Liut, M., & Stamper, J. (2026). Exploring Student Choice and the Use of Multimodal Generative AI in Programming Learning. In *Proceedings of the 57th ACM Technical Symposium on Computer Science Education (SIGCSE '26)*. (7 pages). [30% acceptance rate]

[C.7] Zhang, Z., Chen, P., Du, F., **Ye, R.**, Huang, O., Liut, M., & Aspuru-Guzik, A. (2025). TreeReader: A Hierarchical Academic Paper Reader Powered by Language Models. In *Proceedings of the 2025 IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC '25)*. (21 pages). [37% acceptance rate]

[C.6] **Ye, R.**, Lee, P. Y. K., Varona, M., Huang, O., & Nobre, C. (2025). ScholarMate: A Mixed-Initiative Tool for Qualitative Knowledge Work and Information Sensemaking. In *Proceedings of the 4th Symposium on Human-Computer Interaction for Work (CHIWORK '25)*. (7 pages). [35% acceptance rate]

[C.5] Kazemitabaar, M., **Ye, R.**, Wang, X., Henley, A., Denny, P., Craig, M., & Grossman, T. (2024). CodeAid: Evaluating a Classroom Deployment of an LLM-based Programming Assistant that Balances Student and Educator Needs. In *Proceedings of the 2024 CHI Conference on Human Factors in Computing Systems (CHI '24)*. (20 pages). [26% acceptance rate]

[C.4] Zavaleta Bernuy, A., Sibia, N., Chen, P., Xu, J. J.-N., Tran, E., **Ye, R.**, Pammer-Schindler, V., Petersen, A., Williams, J. J., & Liut, M. (2024). Does the Medium Matter? A Comparative Analysis of Voice and Text Reflective Learning. In *Proceedings of the 2024 ACM Designing Interactive Systems Conference (DIS '24)*. (17 pages). [24% acceptance rate]

[C.3] Zavaleta Bernuy, A., **Ye, R.**, Sibia, N., Nalluri, R., Williams, J. J., Petersen, A., Smith, E., Simion, B., & Liut, M. (2024). Student Interaction with Instructor Emails in Introductory and Upper-Year Computing Courses. In *Proceedings of the 55th ACM Technical Symposium on Computer Science Education (SIGCSE '24)*. (7 pages). [33% acceptance rate]

[C.2] Zavaleta Bernuy, A., **Ye, R.**, Tran, E., Mandal, A., Shaikh, H., Simion, B., Petersen, A., Liut, M., & Williams, J. J. (2023). Do Students Read Instructor Emails? A Case Study of Intervention Email Open Rates. In *Proceedings of the 23rd Koli Calling International Conference on Computing Education Research (Koli Calling '23)*. (12 pages). [23% acceptance rate]

[C.1] **Ye, R.**, Chen, P., Mao, Y., Wang-Lin, A., Shaikh, H., Zavaleta Bernuy, A., & Williams, J. J. (2022). Behavioral Consequences of Reminder Emails on Students' Academic Performance: A Real-world Deployment. In *Proceedings of the*

23rd Annual Conference on Information Technology Education (SIGITE '22). (7 pages). [48% acceptance rate]
🏆 **Best Paper Award (Top 1)**

* denote equal contribution.

EXTENDED ABSTRACT & WORKSHOP PAPERS & PREPRINTS

[W.4] **Ye, R.** (2026). If an Agent Can Write Your Code, What Is Left for You to Learn? Asking, Reviewing, and Owning AI-Assisted Programming. In *Proceedings of the 26th Koli Calling International Conference on Computing Education Research (Koli Calling '26)*. (2 pages).

[W.3] **Ye, R.**, He, J., Finn, F., Hwang, A. H.-C., Khosrowi, D., Kim, S., Scheuerman, M. K. (2026). Who Bears the Cost of Honesty? A FAccT Workshop Synthesis and Research Agenda for Equitable AI Disclosure. Report on Workshop/CRAFT session at the *2026 ACM Conference on Fairness, Accountability, and Transparency (FAccT '26)*. (10 pages).

[W.2] **Ye, R.**, Huang, O., He, J., & Liut, M. (2026). Exploring Emerging Norms of AI Attribution and Disclosure in Programming Education. Accepted at *Understanding and Engaging Critical Resistance to AI in Education Workshop (CHI '26 Workshop)*. (8 pages).

[W.1] **Ye, R.**, Zhang, Z., Almazroua, B., & Liut, M. (2025). Beyond Autocomplete: Designing CopilotLens Towards Transparent and Explainable AI Coding Agents. Accepted at *The First Workshop on the Application of LLM Explainability to Reasoning and Planning (COLM '25 Workshop)*. (15 pages).

RESEARCH SYSTEMS & PROTOTYPES

Reflexis CHI 2026 [C.10]
Web Application (try live): https://reflexis.space/demo
Github Repository: https://github.com/harryye930/reflexis

Reflexis is a collaborative qualitative analysis system designed to support reflexivity, rigour, and deliberation in team-based reflexive thematic analysis.

ARC IUI 2026 [C.9]
Web Application (try live): https://automated-review-companion.web.app/
Github Repository: https://github.com/CORE-Research-Lab/automated-review-companion

Automated Review Companion (ARC) is an AI-assisted literature review system designed to reduce toil while preserving researchers' strategic exploration, control, and responsibility in evidence synthesis.

ScholarMate CHIWORK 2025 [C.6]
Web Application (try live): https://scholarmate.space/demo
Github Repository: https://github.com/harryye930/scholar-mate

ScholarMate is a mixed-initiative system for qualitative knowledge work and information sensemaking, designed to help researchers organize, interpret, and reflect on literature and qualitative evidence.

CopilotLens COLM Workshop 2025 [W.1]
Prototype for making AI coding agents more transparent and explainable during programming workflows.

TEACHING EXPERIENCE

Course Instructor Sep. 2026–Dec. 2026
University of Toronto *Toronto, ON*

- *Introduction to Databases (CSC343)*

Prepared and taught lecture material for a third-year introduction to database course, design assignment and exams, coordinating with a group of 8 Teaching Assistants. Class enrollment: 150.

Teaching Assistant & Head Teaching Assistant Sep. 2021 - Present
University of Toronto *Toronto, ON*

- *Introduction to Computer Programming (CSC108)* Fall '21 (TA), '23 (Head TA), '25 (Prep/Head TA)

  Head TA: Managed logistics for 1000+ students and 40 TAs, including scheduling, invigilation, and staff support. Developed tutorial content and trained TAs on delivery; designed assessments aligned with learning goals and oversaw grading consistency.

  TA: Led active learning sessions to reinforce Python fundamentals; provided immediate feedback to students during practical exercises.

- *Introduction to Databases (CSC343)* Winter '23 (TA), '24 (Head TA), '26 (Head TA)

  Head TA: Managed logistics for 300+ students and 10+ TAs, taught weekly tutorials alongside administrative duties. Developed tutorial content and trained TAs on delivery; designed assessments aligned with learning goals and oversaw grading consistency.

  TA: Delivered weekly tutorials on aspects in database; moderated forums and supported course delivery.

- *Computing Education (CSC389)* Winter '25 (TA), '26 (TA)

  Designed the full tutorial curriculum on empirical research methods, adopted as the standard material for subsequent terms.

  Delivered weekly tutorials and facilitated seminar discussions on pedagogical theory and research methods for a class of 50 students.

- *Software Design (CSC207)* Fall '24 (TA)

  Led weekly tutorials focusing on design patterns, version control, and clean architecture.

  Mentored student teams through the software development lifecycle on semester-long capstone projects.

AWARDS, HONORS, & GRANTS

Generative AI Module Design Award ($12,500) 2026–2027
Cognizant–U of T Generative AI Training Program, University of Toronto

If an Agent Can Write Your Code, What Is Left for You to Learn? [W.4].
PI: Prof. Michael Liut
Lead graduate student: **Runlong Ye**.

Partnership Grant ($2,500) 2026–2027
Institute for the Study of University Pedagogy, University of Toronto

Evaluating LLM and SLM for Higher-Level Technical Writing Feedback.
Co-PIs: Prof. Michael Liut, Prof. Bogdan Simion, Prof. Christopher Eaton, Prof. Andrew Petersen, **Runlong Ye**.

Special Recognition for Outstanding Reviews ×2 2027
ACM Conference on Human Factors in Computing Systems (CHI)

Special Recognition for Outstanding Reviews ×4 2026
ACM Symposium on User Interface Software and Technology (UIST)

Special Recognition for Outstanding Reviews 2025
ACM Conference on Human Factors in Computing Systems (CHI)

DiDi Graduate Student Award in Computer Science ($10,000) 2024–2025
Department of Computer Science, University of Toronto

University of Toronto Undergraduate Student Research Award ($7,500) 2023
Department of Computer Science, University of Toronto

CRA Outstanding Undergraduate Researcher Awards Honorable Mention 2023
Computing Research Association

Best Paper Award 2022
ACM Conference on Information Technology Education (SIGITE)

PROFESSIONAL SERVICE

Conference Workshop Co-organizer 2026
ACM Conference on Fairness, Accountability, and Transparency (FAccT '26) *Montréal, Canada*

Who Bears the Cost of Honesty? Co-creating the Future of AI Disclosure

Co-organizing a participatory FAccT CRAFT/Workshop session on AI disclosure, designed for collective dialogue on responsibility, transparency, and the social costs of AI disclosure practices.

Session website: facct-ai-disclosure.vercel.app

Conference Program Committee

ACM International Conference on Intelligent User Interfaces (IUI) 2027
Koli Calling International Conference on Computing Education Research (Koli Calling) 2026

Conference Reviewer

4× Full Paper, *ACM Human Factors in Computing Systems (CHI)* 2027
3× Full Paper, *ACM International Conference on Intelligent User Interfaces (IUI)* 2027
3× Full Paper, *ACM Koli Calling International Conference on Computing Education Research (Koli Calling)* 2026
4× Full Paper, *ACM Symposium on User Interface Software and Technology (UIST)* 2026
1× Full Paper, *ACM Designing Interactive Systems Conference (DIS)* 2026
5× Full Paper; 1× Short Paper, *ACM Human Factors in Computing Systems (CHI)* 2026
1× Short Paper, *ACM Human Factors in Computing Systems (CHI)* 2025
1× Full Paper, *ACM Designing Interactive Systems Conference (DIS)* 2025
1× Workshop Paper, *Conference on Language Modeling (COLM)* 2025

Conference Student Volunteer

ACM Technical Symposium on Computer Science Education (SIGCSE TS) 2023

Community Volunteer

Graduate Application Assistance Program (GAAP) 2025, 2026
DCS Academy 2025

MENTORING & ADVISING

University of Toronto Computer Science Undergraduate

- **Zeling (Zoey) Zhang** [W.1] Summer 2025