

# RUNLONG (HARRY) YE

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## EDUCATIONS

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### Ph.D. in Computer Science

University of Toronto

Sep. 2024 - Present

Advisor: Prof. Michael Liut, Prof. Carolina Nobre

Research Area: Human-Computer Interaction, Human-AI Interaction, Intelligent System, Educational Technology

### B.Sc. in Computer Science

University of Toronto

Sep. 2019 - Jun. 2024

## PUBLICATIONS

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9. **Ye, R.**, Lee, P. Y. K., Varona, M., Huang, O., & Nobre, C. (2025, June). [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)*.<sup>3</sup>
8. Xiao, R., **Ye, R.**, Hou, X., Kazemitabaar, M., Diana, N., Liut, M., & Stamper, J. (2025, March). [Improving Student-LLM Interactions through Pedagogical Prompting](#). *Preprint*. Under Review.
7. **Ye, R.**, Varona, M., Huang, O., Lee, P. Y. K., Liut, M., & Nobre, C. (2025, February). [The Design Space of Recent AI-assisted Research Tools for Ideation, Sensemaking, and Scientific Creativity](#). *Preprint*. Under Review.<sup>3</sup>
6. **Ye, R.**, Sibia, N., Zavaleta Bernuy, A., Zhu, T., Nobre, C., & Liut, M. (2024, October). [ARC: Automated Review Companion Leveraging User-Centered Design for Systematic Literature Reviews](#). *Preprint*. Under Review.<sup>3</sup>
5. 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, May). [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)*.
4. Kazemitabaar, M., **Ye, R.**, Wang, X., Henley, A., Denny, P., Craig, M., & Grossman, T. (2024, May). [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)*.<sup>2</sup>
3. Zavaleta Bernuy, A., **Ye, R.**, Sibia, N., Nalluri, R., Williams, J. J., Petersen, A., Smith, E., Simion, B., & Liut, M. (2024, March). [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)*.<sup>1</sup>
2. Zavaleta Bernuy, A., **Ye, R.**, Tran, E., Mandal, A., Shaikh, H., Simion, B., Petersen, A., Liut, M., & Williams, J. J. (2023, November). [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)*.<sup>1</sup>
1. **Ye, R.**, Chen, P., Mao, Y., Wang-Lin, A., Shaikh, H., Zavaleta Bernuy, A., & Williams, J. J. (2022, September). [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)*. **Best Paper Award** 🏆<sup>1</sup>

## RESEARCH PROJECTS

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3. [AI-Assisted Research Tools for Ideation, Sensemaking, and Scientific Creativity](#)  
*Dynamics Graphics Project (DGP) Lab, University of Toronto*

Feb. 2024 - Present  
Toronto, ON

Investigated the broader landscape of AI-powered research tools, focusing on enhancing human cognitive engagement and creativity in academic research. Conducted literature review across diverse AI-assisted platforms to uncover critical design dimensions that shape researchers' interactions and decision-making processes, including user agency and control, divergent and convergent thinking, adaptability, and accuracy. Moreover, developed ARC, an open-source platform for automated systematic literature reviews, integrating iterative feedback from global user studies to refine features such as Keyword Variation Management, Iterative Search Comparison, and LLM-powered Irrelevance Filtering. This user-centered approach reduced researcher workload, fostered reproducibility, and advanced transparent research practices.

2. **Design and Evaluation of New Programming Tools using AI Coding Assistants** Jan. 2023 - Dec. 2023  
*Dynamics Graphics Project (DGP) Lab, University of Toronto* Toronto, ON

Part of CODEAID project, an LLM-based programming assistant for a 700-student course, collecting and analyzing over 8,000 student interactions, 1,000+ survey responses, and additional interview data. I led the development of a thematic analysis codebook with specialized classification tags and performed both qualitative and quantitative analyses. These findings informed critical design recommendations for future AI-powered educational tools.

1. **Impact of Reminder Emails Using Randomized A/B Comparisons** Aug. 2020 - Dec. 2023  
*Intelligent Adaptive Interventions (IAI) Lab, University of Toronto* Toronto, ON

Co-developed a series of randomized A/B experiments for encouraging better student learning behaviors. I co-designed and deployed personalized A/B interventions for thousands of students across multiple courses and university campuses. I engage in both quantitative analyses (deriving significant statistical insights on how reminder messages impact behavior) and qualitative investigations (developing interview guides and conducting interviews with ~15 students each semester). My findings directly informed iterative improvements to projects's intervention strategies and messaging.

## WORK EXPERIENCES

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**Full-Stack Software Developer Co-op** May 2022 - May 2023  
*CX, Oracle* Toronto, ON

- Maintained 20+ projects, updating dependencies and documentation. Modernized a legacy web app by creating new pages with React and OJET, enhancing user experience.
- Migrated core application functions to Kubernetes, boosting scalability, reliability, and reducing costs.
- Developed 20+ end-to-end automation tests (Java, Selenium WebDriver, C#), including asynchronous API tests, significantly increasing test coverage and efficiency.

## TEACHING EXPERIENCES

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

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

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

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

**Computing Education** - CSC389 (Winter '25)

- CSC108: Host lecture breakout rooms to teach course exercises in an active learning environment.
- CSC207: Host weekly tutorial sessions to engage students with course content and supervise students' course projects.
- CSC343: Support instructor to update and review course structure, material, and exams. Preparing and delivering weekly tutorials, moderating online discussions, and grading.
- CSC389: Support lecture delivery, develop and deliver weekly tutorial sessions on research methodology.

Head TA includes additional duties such as preparing course materials, coordinating groups of TAs, and additional admin tasks.

## TALKS

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- I. **The 23rd Annual Conference on Information Technology Education (SIGITE '22)** Sep. 2022  
*Paper Presentation* Chicago, Il (Virtual)  
Title: [Behavioral Consequences of Reminder Emails on Students' Academic Performance: a Real-world Deployment](#)

## RESEARCH AWARD

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DiDi Graduate Student Award in Computer Science (\$10,000)	2024-2025
University of Toronto Undergraduate Student Research Award (\$7,500)	2023
CRA Outstanding Undergraduate Researcher Awards Honorable Mention	2023

## SERVICES

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### Conference Reviewer

**CHI** - ACM Conference on Human Factors in Computing Systems

1 × Late-Breaking Work, 2025

**DIS** - ACM Designing Interactive Systems Conference

1 × Full Paper, 2025

### Conference Student Volunteer

SIGCSE (2023)

### Community Volunteer

DCS Academy (2025)

## TECHNICAL STRENGTHS

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<b>Computer Languages</b>	Python, Java, R, JavaScript, SQL, HTML, Bash, C#
<b>Scientific Libraries</b>	Pandas, NumPy, SciPy, Matplotlib
<b>Technologies/Frameworks/Databases</b>	Django, React, React Native, PostgreSQL, Selenium WebDriver
<b>Cloud/Developer Tool</b>	Azure, AWS, Docker, Git, Postman