

Yulong Liu

🏠 yulong.me

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Education

Honours B.Sc. Computer Science Specialist, Mathematics Major

2021 ~ Present

University of Toronto, Toronto, Canada

- High distinction with GPA 3.90/4.00

Papers & Talks

[Characterisation of Languages for Single State PDAs](#)

September 2024

Yulong Liu, *U(t)-Mathazine 2024 Issue, University of Toronto*

[A Computational Approach to String Figures](#)

November 2023

Yulong Liu, *UTSC Computer and Mathematical Sciences Undergraduate Seminar*

[Safe Code Generation: Metaprogramming with Type Theory](#)

October 2023

Yulong Liu, Youzhang Sun, *UTSC Computer and Mathematical Sciences Research Symposium*

[Introduction to Staged Compilation and Two-Level Type Theory](#)

August 2023

Yulong Liu, Youzhang Sun, *Reading Course on Dependent Types*

[A Parsimonious Approach to Pushdown Automata](#)

September 2023

Yulong Liu, *U(t)-Mathazine 2023 Issue, University of Toronto*

Academic Experience

Research Assistant

May 2024 ~ September 2024

Undergraduate Summer Research Program (USRP), University of Toronto, Canada

- “Reason About Computational Effects” advised by Professor [Ningning Xie](#)
- Received the University of Toronto Excellence Awards (UTEA) with \$7500 stipend

Teaching Assistant

January 2023 ~ Present

University of Toronto, Canada

- CSCC73 - Algorithm Design and Analysis (Fall 2024)
- CSCC24 - Principles of Programming Languages (Winter 2024)
- CSCB36 - Theory of Computation (Summer 2023, Fall 2023, Summer 2024, Fall 2024)
- CSCA67 - Discrete Mathematics (Winter 2023)

Guest Lecturer

June 2023 ~ May 2024

CSCB36 - Theory of Computation, University of Toronto, Canada

- Introduction to Deterministic Finite State Automata (Summer 2023)
- Closure Properties of Regular Languages using State Machines (Summer 2023)
- Introduction to Propositional Logic (Fall 2023)
- Program Correctness for Iterative Programs (Summer 2024)

Honors & Awards

University of Toronto, Department of Computer and Mathematical Sciences

- Teaching Assistant Award September 2024
- [University of Toronto Excellence Awards](#) with \$7500 stipend May 2024
- Professor Nominee for contributions in CSCC24 - Principles of Programming Languages March 2024
- Professor Nominee for contributions in CSCB36 - Theory of Computation March 2024
- Dean's List (*for maintaining a GPA above 3.5*) 2022 ~ 2024