

**Giovanni Tedesco**

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<https://www.github.com/Giovanni-Tedesco>

**Summary**

I am a Mathematics and Computer Science student at the University of Toronto Mississauga. Above all, I am passionate about working on interesting problems and applying my background in mathematics to solving both real world and theoretical problems.

**Education**

[University of Toronto Mississauga – Computer Science](#)

**(September 2020 – Present)**

- Fourth Year Computer Science and Mathematics Double Major
- 3.42 CGPA
- Teaching assistant for Mat135 (Calculus I), and Mat136 (Calculus II)

**Experience**

[The Fields Institute](#)

**Summer Research Student**

(June 2023 — August 2023)

- Performed novel mathematical research in the field of algebraic graph theory specifically studying Kemeney's Constant for threshold graphs.
- Formulated and proved conjectures related to our research problem. Wrote code to experimentally verify our claims.
- Wrote a preliminary draft of what would eventually be our paper <https://arxiv.org/pdf/2310.08552.pdf>

[Distributive](#)

**AI Task Force Intern**

(April 2022 — August 2022)

- Full stack MERN development for a web application dealing with surgical block scheduling for hospitals
- Developed and integrated a CI solution for front end testing using Cypress and Gitlab CI
- Researched and began development of a solution to integrate javascript inside of python and unifying their garbage collection systems.
- Did internal exploratory work for integrating Rust based workflows inside of DCP, a javascript based parallelization solution.

[Preyra Solutions Group](#)

**Intern Data Analyst**

(May 2021 – August 2021)

- Developed an analysis tool to generate interactive client ready demonstrations, while also speeding up internal exploratory work.
- Created an internal report generating tool to produce large quantities of automatically created and formatted PowerPoints.