

Davide Gentile

Toronto, Canada | gentiledv@gmail.com | +1 416-302-2124

SUMMARY

Results-driven researcher with expertise in human-systems integration. I specialize in optimizing human interaction with complex systems to improve safety, performance, and decision-making. Seeking to contribute to the development of efficient and user-friendly energy technologies.

WORK

Research Team Lead

University of Toronto | Toronto, ON | Sep 2024 – Present

- Leading a research program focused on optimizing human performance in small modular reactor operations, designing and evaluating user interfaces to support decision-making and efficiency.
- Conducting experiments to assess how machine learning explanations influence human decision-making, improving the integration of AI systems in high-stakes environments like energy operations.
- Supervising and mentoring a team of junior researchers and engineers, guiding the development of technical specifications for control panels and displays for multi-unit reactor systems.
- Manage a \$360K research budget, coordinate industry and academic collaborations across North America and Europe, and represent the lab in technical forums, including meetings with the Canadian Nuclear Safety Commission and OECD-NEA.

Data Science Consultant

Armillia AI | Toronto, ON | Jan 2024 – Jun 2024

- Developed frameworks to enhance trust and usability in AI systems, focusing on large-scale data interaction and real-time decision-making.
- Led risk assessments and usability testing to ensure compliance with global safety standards.
- Partnered with clients to align research insights with business and product development goals.

Research Intern

Ericsson, Global AI Accelerator | Montreal, QC | Oct 2020 – Sep 2023

- Conducted behavioral studies to improve machine learning model interpretability and user experience.
- Collaborated with cross-functional teams in product and engineering to apply human-system integration principles in AI-driven solutions.

EDUCATION

PhD, Industrial Engineering, University of Toronto, 2019 – 2024

MSc, Cognitive Science of Language, McMaster University, 2017 – 2019

BA, Lettere Moderne, University of Bologna, 2014 – 2017