

Davide Gentile

Research Scientist, Human-AI Interaction

I enjoy applying scientific methods to augment human decisions.

Email:

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Work

Research Scientist - University of Toronto

09/2019 – present

- Since 2024, I lead two analytical and experimental teams as a postdoc on projects dedicated to monitoring and control of small modular reactors.
- Between 2019 and 2024, I was PhD researcher and teaching assistant in statistics and human factors engineering.
- I've led multi-year research projects from inception to publication, mentored junior researchers, and collaborated across academic and business teams.

Visit my website:

gentiled.github.io

Expertise

Statistics
Human-subjects evals.
Design of experiments
Machine learning
Causal inference
Prototyping

Data Scientist - Armilla AI

01/2024 - 06/2024

- As freelance consultant in this Toronto-based startup, I have developed risk assessment frameworks to evaluate predictive and generative AI models across different dimensions, including system performance (e.g., can the user accomplish the task successfully?) and model bias.

Languages

Italian
English
Spanish
Latin

Research Intern - Ericsson

10/2020 - 06/2024

- I led human-subjects the evaluation of machine learning tool designed to support the productivity of Ericsson's data scientists. This experience taught me how to integrate user-centered research with operational execution.

Education

Ph.D., University of Toronto, Industrial Engineering, 2024

M.Sc., McMaster University, Cognitive Science of Language, 2019

B.A., Alma Mater Studiorum - Università di Bologna, Lettere Moderne, 2017

Example peer-reviewed publication

Gentile, D., Donmez, B., & Jamieson, G. A. (2023). Human performance consequences of normative and contrastive explanations: an experiment in machine learning for reliability maintenance. *Artificial Intelligence*, 321, 103945. [\[Link\]](#)

Example blog post

Gentile, D. (2023). Exploring user interaction challenges with large language models. Schwartz Reisman Institute for Technology and Society. [\[Link\]](#)