

Davide Gentile

Applied Scientist

I enjoy applying scientific methods to guide human decisions.

Email:

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Work

Researcher, Team Lead - University of Toronto

09/2019 – present

- Since 2024, I am a postdoc and experimental team lead 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

Human-subjects evals.
Design of experiments
Statistics
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 human-system performance and model bias.

Languages

Italian
English
Spanish
Latin

Research Intern - Ericsson

10/2020 - 06/2024

- I led the human-subjects evaluation of a machine learning tool designed to support the productivity of Ericsson's data scientists. This experience taught me how to integrate research and 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 experiment

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*. [\[Link\]](#)