Davide Gentile

Research Scientist, Human-AI Interaction
I enjoy applying scientific methods to augment human decisions.

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Work

Research Scientist - 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.

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 (e.g., can the user accomplish the task successfully?) and model bias.

Reearch 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 human-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

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

Languages
Italian
English
Spanish
Latin

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]