

# Davide Gentile

Data Scientist

Email:

[gentiledv@gmail.com](mailto:gentiledv@gmail.com)

## Work

**Postdoctoral researcher** - University of Toronto

09/2024 – present

- I lead the experimental and analytical teams at the Cognitive Engineering Lab on projects funded by NSERC\* and CNSC\*\* focused on remote monitoring and control of small modular reactors.
- Between 2019 and 2024 I was PhD researcher and teaching assistant in statistical programming and human factors engineering.
- My PhD focused on designing and evaluating explainable AI displays to support human decisions and performance in safety-critical work environments.

**Data science consultant** - Armilla AI

01/2024 - 06/2024

- I worked part-time in this Toronto-based startup, where I have developed risk assessment frameworks to evaluate predictive and generative models across different dimensions, including system performance and model bias.

**Research intern** - Ericsson

10/2020 - 06/2024

- I led the human-subjects evaluation of a machine learning software designed by my team to support the productivity and performance of Ericsson's data scientists.

## 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

Check my website:

[gentiled.github.io](https://gentiled.github.io)

## Expertise

Statistics

Design of experiments

Machine learning

Human-subjects  
research

Causal inference

Prototyping

Cross-functional  
collaboration

## Tools

R, RStudio

Python

Quarto

Books, papers

## Languages

Italian

English

Latin

Basic Spanish and

French

## Why I love this job

I see statistics and data science as ways to making the most out of the information and tools that we have for enhancing human decisions.

## Example 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.

\* Natural Science and Engineering Research Council of Canada; \*\* Canadian Nuclear Safety Commission