

Henri Arno

PhD Candidate, Ghent University – imec
Technologiepark 126, 9052 Zwijnaarde, Belgium
henri.arno@gmail.com

Research Profile

PhD candidate at Ghent University working on causal machine learning for data-driven decision support. My research interests include causal inference, treatment effect estimation and policy learning, with applications in business and healthcare.

Education

2021 – present	PhD in Computer Science Engineering and Business Economics <i>Ghent University, Ghent, Belgium</i> Supervisors: prof. Thomas Demeester, prof. Klaas Mulier, and prof. Joke Baeck Expected completion in Autumn 2026 FWO PhD Fellowship Fundamental Research
2019 – 2021	Master of Science in Business Engineering: Data Analytics <i>Ghent University, Ghent, Belgium</i> Summa cum laude (percentile 95)
2016 – 2019	Bachelor of Science in Business Engineering <i>Ghent University, Ghent, Belgium</i>
2010 – 2016	Secondary school (Economics-Mathematics) <i>RHIZO Lyceum OLV Vlaanderen Kortrijk, Kortrijk, Belgium</i>

Academic Experience

2023 – present	PhD Candidate – FWO Fellow <i>Ghent University, Ghent, Belgium</i> Supervisors: prof. Thomas Demeester, prof. Klaas Mulier, and prof. Joke Baeck Research in causal machine learning for data-driven decision support Funded by an FWO PhD Fellowship Fundamental Research
Sep – Dec 2025	Visiting Researcher Causal Machine Learning Lab, Institute of AI in Management <i>Ludwig-Maximilians-Universität München (LMU), Munich, Germany</i> Hosted by prof. Stefan Feuerriegel Funded by an FWO Grant for a Long Stay Abroad
2021 – 2023	PhD Candidate – Interdisciplinary Research Project <i>Ghent University, Ghent, Belgium</i> Research on business failure prediction for judicial decision support Funded through an FWO research project led by prof. Joke Baeck

Research Projects

Causal Machine Learning for Data-Driven Decision Support

Research on treatment effect estimation, ranking, and policy learning from observational data, with applications in business and healthcare.

Selected outputs: International Conference on Machine Learning (ICML 2026), Machine Learning for Healthcare (MLHC 2026), NeurIPS Causal Representation Learning Workshop (2024).

Business Failure Prediction and Judicial Decision Support

Interdisciplinary research on multimodal business failure prediction and AI-supported decision-making in collaboration with Belgian commercial courts.

Selected outputs: Annals of Operations Research (2025), European Insolvency and Restructuring Journal (2025), FinTech and Natural Language Processing Workshops (2022, 2023).

Grants and Fellowships

2023 – 2027

FWO PhD Fellowship Fundamental Research

Research Foundation Flanders (FWO)

Panel: Science and Technology – Computer Science and Information Technology

Sep – Dec 2025

FWO Grant for a Long Stay Abroad

Research Foundation Flanders (FWO)

Funding for a three-month research stay at LMU Munich

July 2026

CWO Faculty Mobility and Sabbatical Fund

Ghent University, Faculty Committee for Scientific Research (CWO)

Travel support for participation in ICML 2026

Teaching and Supervision

Master's Dissertation Supervision

Ghent University, Ghent, Belgium

Supervised 12 master's dissertations

8 students in Business Engineering

4 students in Computer Science Engineering

Teaching Assistance

Ghent University, Ghent, Belgium

Assisted with grading, lab sessions, and course-related support for:

Machine-Learning Based Natural Language Processing

Topics in Advanced Corporate Finance

Financial Modelling

Guest Lectures

Ghent University and KU Leuven, Belgium

Delivered guest lectures on AI-related concepts to law students:

Introduction to Artificial Intelligence Technology (KU Leuven)

Law and Economics (Ghent University)

Honours and Distinctions

2017 – 2019

Quetelet Colleges Honours Programme

Ghent University, Ghent, Belgium

Selective extracurricular university-wide honours programme

Additional Activities

Vice-President of my local triathlon club (fundraising, website and communications)

Active in long-distance triathlon and endurance sports

Languages

Dutch: native

English: excellent

French: intermediate