

AHMED BOUGHDIRI

191 avenue des poilus, Marseille, France

☎ +33618683521 ✉ ahmed.boughdiri@inria.fr 🌐 boughdiriahmed.github.io

PhD student in causal inference

Education

INRIA

2023 – 2026

PhD in Causal Inference under the supervision of Erwan Scornet and Julie Josse

Montpellier, France

- Estimation of the causal risk ratio in randomized and observational studies, including efficiency gains from covariate adjustment and doubly robust estimators derived from semiparametric efficiency theory.
- A unified identification and estimation framework for generalizing and transporting a broad class of causal effect measures (absolute and relative measures, non-collapsible measures) under covariate shift.
- A causal perspective on meta-analysis, clarifying when standard aggregation methods admit a causal interpretation, why this may fail for relative measures such as RR and OR, and proposing alternative causal aggregation approaches compatible with aggregate data settings.

ENS Paris-Saclay

2021 – 2022

MSc Computer vision and machine learning (MVA)

Paris, France

- Main courses: Reinforcement learning, Probabilistic graphical models, Convex Optimization, Object Recognition

PONTS ParisTech

2018 – 2022

MSc in Computer Science and Mathematics Engineering

Paris, France

- Main courses: Stochastic calculus, Operations research, Machine Learning, Game theory, Optimal control theory

Lycée Pierre de Fermat

2016 – 2018

Preparatory Program for entry to French Grandes Écoles d'Ingénieurs

Toulouse, France

- Intensive preparation in mathematics, physics and computer science for highly selective nationwide exams.

Publications

Boughdiri, A., Josse, J., & Scornet, E. (2025). *Quantifying treatment effects: Estimating risk ratios via observational studies*. *Proceedings of the 42nd International Conference on Machine Learning, PMLR 267*, 5156–5217.

Boughdiri, A., Berenfeld, C., Josse, J., & Scornet, E. (2025). *A unified framework for the transportability of population-level causal measures*. *Advances in Neural Information Processing Systems 38 (NeurIPS 2025)*.

Berenfeld, C., Boughdiri, A., Colnet, B., van Amsterdam, W. A. C., Bellet, A., Khellaf, R., Scornet, E., & Josse, J. (2025). *Causal meta-analysis: Rethinking the foundations of evidence-based medicine*. Under review, *Harvard Data Science Review*.

Invited Talks

I2M, Marseille (Jan. 2024) JDS (Jun. 2024) ICSDS, Nice (Dec. 2024) SnB (2025) JDS (Jun. 2025) SODA, INRIA (Oct. 2025) UC Berkeley (Nov. 2025) NeurIPS, Paris (Dec. 2025)

Experience

Polytech Montpellier & Université de Montpellier

2025 – 2026

Teaching Assistant

Montpellier, France

- Taught courses in statistics and probability to engineering students.
- Taught introductory courses in mathematics and statistics to first-year university students.

INRIA, PreMeDICaL

April 2023 – September 2023

Research Engineer under the supervision of Julie Josse and Erwan Scornet on Causal inference.

Montpellier, France

EPFL, LCAV

April 2022 – October 2022

Research Intern under the supervision of J.Fageot on sparse inverse problem.

Lausanne, Switzerland

- Adapted and re-wrote a paper on sparse inverse problem to the periodic case.

ENS ULM & CNRS

April 2021 – July 2021

Research Intern under the supervision of G.Dugué and P.Latouche on biology applications of ML

Paris, France

Air France & CERMICS

January 2021 – April 2021

Research Intern under the supervision of A.Parmentier on the prediction of stochastic models

Paris, France

- Applied a Lagrangian relaxation on the pricing sub-problem to derivate a lower bound of the minimization problem.