



ATBIR Hind

PhD student in Statistical Machine Learning

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🌐 <https://hatbir.gitlab.io/>

Birth date: 06 november 2000 – Age: 24
Nationality: French
Languages : French (*native*), English (*fluent*)

Education

- 2024 – ... **PhD. in Computer Science** (*Statistical Machine Learning*) Univ. Jean Monnet Saint-Etienne, France
Data Intelligence Team, Lab. Hubert Curien UMR CNRS 5516, Inria
Title: Learning fair and robust kernel-based models with generalization guarantees
Supervisors: Farah Cherfaoui, Rémi Eyraud, Emilie Morvant, Paul Viallard
Funding: Awarded a PhD scholarship by the Doctoral School SIS 488
- 2022 – 2024 **MSc. Computer Science**
Year 1: General curriculum Univ. Claude Bernad Lyon 1, France
Year 2: Theoretical Computer Science for research École Normale Supérieure, Lyon, France
- 2019 – 2022 **BSc. Computer Science & Mathematics** Univ. Claude Bernard Lyon 1, France
◦ Erasmus+ Exchange Semester, (Feb–Jul 2022) Sabancı Univ., Istanbul, Turkey
Studied Computer Science and Mathematics in English
- 2018 **French Baccalaureate in Science** Lycée Saint Just, Lyon, France

Research Experiences

- Feb 24 – Jul 24 **MSc. Year 2 – Research Internship** Univ. Jean Monnet Saint-Etienne, France
Data Intelligence Team, Lab. Hubert Curien UMR CNRS 5516
Master thesis: PAC-Bayesian generalization bounds for Fair Learning
Supervisors: Farah Cherfaoui, Guillaume Metzler, Emilie Morvant, Paul Viallard
- Nov 22 – May 23 **MSc. Year 1 – Research Project** Univ. Claude Bernard Lyon 1, France
Part of the "Ouverture à la recherche" course, with individual supervision by a researcher
Title: Proposition of a Meta-learning Algorithm for Link Prediction in Graphs
Supervisor: Rémy Cazabet

Communication in Peer-Reviewed French Conference

- [1] H. Atbir, F. Cherfaoui, G. Metzler, E. Morvant, and P. Viallard, "Une borne pac-bayésienne sur une mesure de risque pour l'apprentissage équitable," in *Conférence sur l'Apprentissage Automatique (CAp)*, Lille, 2024.

Seminars

- Mar 25 **A PAC-Bayesian Bound on a Measure of Risk**, ANR project Famous workshop, Aix-Marseille Univ., France
- Oct 24 **PAC-Bayesian Generalization Bound for Fairness**, Seminar of MALICE Team, Inria, Saint-Etienne, France

Teaching Experience (In French)

- 2025 **Machine Learning Fundamentals** – M1 Informatique 6h CM/TD - 10h TP
Machine Learning Fundamentals and Algorithms – M1 Erasmus Mundus OIVM 10h TP
Programmation Impérative (python) – L1 Informatique 32h TP