Iqraa Meah

PhD candidate in Statistics.

✉ iqraa.meah@sorbonne-universite.fr
GitHub
Personal web-page

Education

Since January 2021 — **PhD candidate in Statistics**, *Sorbonne University, Paris, France - Hochschule Darmstadt, Darmstadt, Germany*.
Supervided by Etienne Roquain (LPSM, Sorbonne University) and Sebastian Döhler(Hochschule Darmstadt).
Title: On improving multiple testing for structured data.
Objective: My thesis research aims to propose new approaches ensuring control of the false discovery proportion either in probability (uniform tail bounds) or in expectation (false discovery rate) while taking into account particular structures that are inherent to modern data sets such as online data, discrete data or pre-ordered data.

2019–2020 — **Master 2 in Statistics**.
Sorbonne University, Paris, France

Work experiences

May 2020– October 2020 — **Research Internship on privacy in Deep Learning**, *Owkin, Paris, France*.
Supervised by Mathieu Andreux and Eric Tramel.
Master thesis title: Privacy of gradients in deep learning: an inverse problem perspective.
Objective: Owkin is a biotech company that uses AI to leverage biomedical data to find the right treatment for every patient. The goal of the internship was to investigate privacy attacks aiming at reconstructing data samples from gradients during the training of deep learning algorithms in a federated setting.

Publications

Preprints (authorship in alphabetical order besides for the second item)

2023 — **A unified class of null proportion estimators with plug-in FDR control** S. Döhler, I. M. arXiv

2023 — **False discovery proportion envelopes with consistency,** I. M, G. Blanchard, E. Roquain. arXiv

2021 — **Online multiple testing with super-uniformity reward,** S. Döhler, I. M., E. Roquain. arXiv (*In review for EJS*)

Communications

July 2023 — **Journées des Statistiques**, Brussels, Belgium

May 2023 — **Workshop on Statistical Data Science**, Hochschule Darmstadt, Darmstadt, Germany

September 2022 — **Efficient statistical testing for high-dimensional model (FAST-BIG) workshop**, Inria, Paris

August 2022 — **International Conference on Multiple Comparison Procedures**, Bremem, Germany

June 2022 — **Journées des Statistiques**, Lyon, France

April 2022 — **Rencontres Jeunes Statisticiens**, Porquerolles, France

March 2022 — **Workshop on post-selection inference for genomic and neuroimaging data**, Institut Mathématique de Toulouse, Toulouse, France.

February 2022	**Young Statisticians and Probabilists day**, Institut Henri Poincaré, Paris, France.
November 2021	**Groupe de travail des thésards (PhD students seminar)**, Sorbonne University, Paris, France.

Scientific activities

Since June 2022	**Member of the The Young Statisticians Group** in the French Statistical Society (SFDS) ○ Organizer of the 11th Young Statisticians and Probabilists day at Institut Henri Poincaré, Paris.
2021 and 2022	**Reviewer:** Biometrical Journal

Teaching activities

Sept - Dec 2022	○ Statistics and linear models in R (practical sessions) for Master 1 ISUP ○ Data science in Python (practical sessions) for L1
Sept - Dec 2021	○ Linear models exercice class for Master 1 ISUP ○ Data science in Python (practical sessions) for L1

Computer skills

Languages	Python – R (see my GitHub to have a glance at some of my code)
Tools	Git, Anaconda, Latex

Language skills

French	Mother tongue
English	Fluent