# Iqraa Meah

*PhD candidate in Statistics.*

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github.com/iqm15

## 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**: Investigate privacy attacks aiming at reconstructing data samples from gradient during the training of deep learning algorithms in a federated setting.

## Publications

### Preprints

**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 (*Under review at EJS*)

### Upcoming preprint

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

## 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.

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| November 2021 | **Groupe de travail des thésards (PhD students seminar)**, Sorbonne University, Paris, France. |

## Scientific activities

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

## Teaching activities

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

## Computer skills

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| Languages | Python – R |
| Tools | Git, Anaconda, Latex |

## Language skills

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| French | Mother tongue |
| English | Fluent |