

# EL Hamri Mourad

Machine learning researcher

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## Academic degree

- 2019 – 2022 **Doctor of Philosophy - Ph.D. in Machine Learning**,  
Optimal Transport Theory for Transfer Learning and Domain Adaptation,  
Sorbonne Paris Nord University – Paris, France.
- 2017 – 2019 **Master's degree : Exploration Informatique des Données et Décisionnel (EID2)**,  
4th in France (Eduniversal Evaluation Agency 2019)  
Mention : Bien  
Focus on machine learning, deep learning and data science,  
Institut Galilée - Université Sorbonne Paris Nord – Paris, France.
- 2017 – 2019 **Master's degree : Applied Mathematics and Data Science**,  
Speciality : Statistics and Data Science  
Mention : Bien | Major de promotion  
Focus on stochastic process, probability theory, statistical inference and data science,  
Faculté des Sciences de Fès - Université Sidi Mohamed Ben Abdellah – Fès, Maroc.
- 2012 – 2017 **Bachelor's degree in Mathematical Sciences and Applications**,  
Speciality : Statistics  
Focus on measure theory, Lebesgue integration theory, probability and statistical inference,  
Faculté des Sciences de Fès - Université Sidi Mohamed Ben Abdellah – Fès, Maroc.
- 2012 – 2017 **Associate's degree in Mathematical Sciences and Applications**,  
Focus on probability theory, algebra and mathematical analysis,  
Faculté des Sciences de Fès - Université Sidi Mohamed Ben Abdellah – Fès, Maroc.
- 2012 **Baccalaureate degree in Mathematical Sciences**,  
Speciality : Mathematical Sciences B,  
Lycée Ibn al-Haytham – Fès, Maroc.

## Professional experiences

- 2019 – 2022 **Graduate Teaching Assistant - Université Sorbonne Paris Nord**,  
Teaching :  
- 2020/2021 :  
• Master 2 Exploration Informatique des Données et Décisionnel (EID2) - Machine Learning  
• Master 2 Mathématiques des Données - Machine Learning  
• Master 2 Mathématiques des Données / License 3 Informatique - Bases de Données  
• License 1 PC-SPI - Programmation impérative.  
2019/2020 :  
• Ingénieurs Sup Galilée 1e année - Introduction à Matlab  
• License 1 Mathématiques - Algorithmique pour l'algèbre linéaire  
• License 1 Mathématiques / License 1 Informatique - Programmation C
- 2019 **Research Intern - Northern Paris Computer Science Lab - CNRS (UMR 7030)**,  
Learning from learners through Optimal Transport Theory.  
Publication : Multi-view Clustering through Optimal Transport. Aust. J. Intell. Inf. Process. Syst. 15(3) : 1-9 (2019)
- 2017 **Research Intern - Laboratoire Algèbre, Géométrie et Arithmétique (LAGA) - Fès**,  
Elliptic curve cryptography.

## Research activities

- Axe 1 : **Semi-supervised Learning**, New label propagation algorithms, Induction to Out-of-Sample Data ....
- Axe 2 : **Domain Adaptation and Transfer Learning**, New methods for domain adaptation and transfer learning, Theoretical guaranties using Optimal Transport Theory ....

## Informatics tools

- Softwares : R, SageMath, AMPL, Matlab, Géogebra, Tableau, Talend, XAMPP
- Programming language : Python, R, Java, SQL, C
- Database management system : Oracle Database
- Software system for document preparation : LaTeX

## Competences

- Machine Learning
- Deep Learning
- Text and Web Mining
- Image Mining
- Business Intelligence
- Data Warehouse
- Mathematical statistics
- Stochastic process
- Probability theory
- Time series
- Exploratory data analysis
- Sampling
- Regression analysis
- Simulation
- Operations research
- Optimization

## Centers of interest

- Machine Learning,
- Optimal Transport Theory,
- Statistics and Probability.

## Languages

- English Professional competence
- French Bilingual
- Arabic Native language