# Safa BOUDABOUS

## POSTDOCTORAL RESEARCHER

I am a postdoctoral researcher since 2023 at CEREMADE, Université Paris-Dauphine, PSL under the supervision of Prof. Emmanuel BACRY. I am working on automatically detecting sleep micro-arousal and desaturation using Deep Learning.

I hold a PhD in computer science from the Institut Polytechnique de Paris (Telecom Paris).

## Fields of Interest

- Statistical and Machine Learning.
- Time series and signal processing.
- Graph-structured data.
- Deep learning.
- Online learning.
- Transfer Learning.

## Contact Details

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## Computer Skills

- Python, R, Java and C.
- Scikit-learn, Pytorch, Pytorch-geometric.
- SQL and No-SQL databases.
- Github.
- Latex and Microsoft Office.

## Languages

- Arabic (native)
- French (fluent)
- English (intermediate)

## Leisure Interest

- Reading
- Crafting (Knitting, crocheting, pottery)
- Travelling

## Work Experience

### CEREMADE, Université Paris-Dauphine, PSL
Postdoctoral Researcher | 2023 -

### Orange
Postdoctoral Researcher | 2022 - 2023

### Telecom Paris
Practical sessions co-assistant | 2018-2019

## Education

### Telecom Paris (Institut Polytechnique de Paris)
PhD in Computer Science | 2017 - 2021

- Collaboration with the VEDECOM research institute.
- Co-supervised by Prof. Houda Labiod and Prof. Stephan Clémençon.

### Telecom Paris (Paris Saclay)
Master's Degree in Data Science | 2016 - 2017

- Joint program with Paris Sud University and Ecole Polytechnique..

### INSAT (Tunisia)
Engineer's Degree in Computer Science |2010 - 2015

- Major in big data management.
- Preparatory classes in mathematics, physics and computer science.

## Research Publications

- Dynamic Graph Convolutional LSTM application for traffic flow estimation from error-prone measurements: results and transferability analysis, (DSAA 2021).
  S. Boudabous, S. Clémençon, H. Labiod, and J. Garbiso.
- Simulation Model of BT Passive Scanning for Vehicular Traffic Monitoring (VTC Fall 2020).
  S. Boudabous, J. Garbiso, S. Ali, J.Zhang, and H. Labiod.
- Traffic Analysis Based on BT Passive Scanning. (VTC Spring 2019).
  S. Boudabous, J. Garbiso, B. Leroy, S. Clémençon, H. Labiod.
- A secure IoT architecture for streaming data analysis and anomaly detection (IoT S&P 2017).
  S. Boudabous, S. Clémençon, O. Jelassi and M. C. Roca.