

# MARGAUX BRÉGÈRE | PHD, RESEARCH ENGINEER

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## WORK EXPERIENCE

- Depuis 2020 **EDF R&D - Optimization Simulation RIks and Statistics department (OSIRIS)**, Palaiseau  
Researcher engineer in the consumption forecasting at short and medium term team  
Studies and development of statistical and machine learning models for electrical consumption forecasting, production of renewable energies and in relation to energy markets; supervision of internships and thesis
- 2017 - 2020 **EDF R&D - OSIRIS department, Université Paris-Sud, Inria Paris, Île-de-France**  
CIFRE PhD Student in Applied Mathematics - Bandit algorithms for power consumption control
- 2017 **EDF R&D - OSIRIS department**, Palaiseau  
Internship : Modeling for power consumption control
- 2016 **INRA-AgroParisTech Mathematics and Computer science Lab**, Paris  
Research internship (6 months): Variable selection methods for metabolomics multivariate data
- 2015 **Institute of Electronic Structure and Laser (IESL)**, Heraklion, Greece  
Research internship (3 months) : Propagation of waves in photonic networks
- 2014 **Afrijet Business Service**, Libreville, Gabon  
Work experience placement (1 month)

## TEACHING

- 2021 - 2022 ★ **ISUP - ISDS**, Statistical learning - Master 2
- 2019 - 2022 ★ **ENSAE**, Intervention in the statistical modeling seminar and project management - Master 1
- 2018 - 2022 ★ **ENSAI**, Semi-parametric regression models - Master 2
- 2017 - 2019 ★ **Université Paris-Sud**, Tutorial on probability and statistics - Licence 2
- 2017 - 2018 ★ **Université Paris-Sud**, Tutorial on probability - Licence 1

## EDUCATION

- 2020 **CIFRE PhD in Applied Mathematics** - EDF, Université Paris-Sud, Inria  
Thesis supervised by Gilles Stoltz (CNRS, Laboratoire de Mathématiques d'Orsay, team Probabilities and Statistics), Yannig Goude (EDF R&D, OSIRIS, department)  
Pierre Gaillard (Inria Paris, SIERRA team, Machine Learning research laboratory)
- Institute for Systems and Computer Engineering, Technology and Science**, Porto, Portugal  
3 months collaboration with thePower and Energy System team

## AWARDS

- 2022 ★ **TSG**, Think SmartGrids association Award
- 2021 ★ **AMIES**, Finalist for the Agency for Mathematics in Interaction with Business and Society Award
- 2017 ★ **JDSE**, Junior Conference on Data Science and Engineering award
- 2017 **Engineering School Supaéro** - Institut Supérieur de l'Aéronautique et de l'Espace - multidisciplinary Master's Degree in Engineering Sciences
- 2016 **Research Master's Degree in Applied Mathematics to Life Sciences (with distinction)**, Université Paris-Saclay
- 2011 - 2013 **Intensive program preparing for the national competitive exam for entry to engineering schools (MPSI, MP\*)** - Lycée Saint-Louis, Paris
- 2011 **Baccalauréat (High school diploma) Specialisation in mathematics (with distinction)** - Lycée Saint-Paul, Angoulême

## SKILLS

### LANGUAGES

**French** - Native language  
**English** - Professional competence  
**German, Spanish** - Basic competence

### COMPUTER SCIENCE

Programming - **R, Python** (basic skills in C, C++, Java)  
Computing - **RStudio, Shiny, Jupyter, PyCharm, Tensorflow**  
Others - **Latex, Git, Office Pack**

## INTERESTS

- 2021 - **FrENBIS** - Member of the French branch of European Network for Business and Industrial Statistics (ENBIS)
- 2019 - **French Statistical Society** - Member of the Young Statisticians
- 2018 **MATh.en.JEANS** - Association developing mathematical research workshops in schools - Organization of the Orsay congress
- 2014 - 2015 **Supaéro painting club** - Head of the club
- 2008 - 2010 **International Comic Festival (Angoulême)** - Volunteer  
**Drawing and Painting** 🎨, **Photography**, **Hiking**, **Kite-surfing**, **Sailing** (boating licence)