



# LUCIE BERNARD

DATA SCIENTIST - PhD

## PROFILE

With 3+ years of experience in competitive companies, I'm highly skilled in Machine Learning (ML) algorithms and advanced statistical methods for data analysis.

## PERSONAL INFO

- 🇫🇷 French
- 🎂 29 years old
- ☎ +33 6 18 68 84 40
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- 📍 Falckensteinstr.7, 10997 Berlin

## EXPERIENCE

### - RESEARCH ENGINEER IN APPLIED MATHEMATICS - PhD

➤ **STMicroelectronics - Tours, Fr**

Partner academic research labs ➤ **LPSM - Sorbonne Université - Paris**

➤ **IDP - University of Tours - Tours**

Oct. 2015 - Jun. 2019

Development of ML models that predict the profitability of industrial production systems. Optimization of costs due to data collection (design of experiments). Collaboration with the *Computer Aided Design* team to develop a decision support software (R/Matlab/SQL) for engineers. Management of postgraduate internships.

### - RESEARCH AND DEVELOPMENT PROJECT MANAGER

➤ **EDF R&D - Industrial Risk Management team - Paris, Fr**

Apr. 2014 - Sept. 2014

Development of ML models that treat uncertainty sources in data (sensitivity analysis) and optimize investments for the maintenance of nuclear power plants.

### - RESEARCH AND DEVELOPMENT PROJECT MANAGER

➤ **IRMAR laboratory - Rennes, Fr**

Apr. 2013 - Sept. 2013

Analysis of environmental large-scale data for delivering a predictive model. Application in meteorological forecasting.

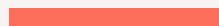
### - TEACHING

2016 - 2017 - Analysis and linear algebra tutorials at Sorbonne Université, Paris.

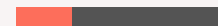
2015 - Teaching in mathematics at J.Prévert high school, Boulogne-Billancourt, Fr.

2013 - 2015 - Private tutoring in mathematics and economics.

R/Matlab



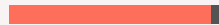
Python



SQL



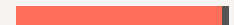
Communication



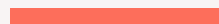
Listening ability



Collaboration



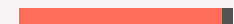
Data analysis



Programming



Statistics



French (mother tongue) - English (fluent)

## EDUCATION

### - PhD IN MATHEMATICS - Statistics & Probability

➤ **IDP - University of Tours - Tours, Fr**

Oct. 2015 - Jun. 2019

### - MSc IN STATISTICS

➤ **University of Rennes 1 - Rennes, Fr**

Sept. 2012 - Sept. 2014

➤ ML-DL algorithms - Bayesian methods - Statistical predictive models

➤ Regression models - Econometrics - Optimization algorithms

### - BSc IN MATHEMATICS

➤ **University of La Rochelle - La Rochelle, Fr**

Sept. 2009 - Sept. 2012