

# Cécile Sauder

**Data Scientist - R Expert**  
9 years of experience



Montpellier



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cecilesauder

## Education

**PhD in Data Science in Biology**

2010 - 2014 | Agrocampus Ouest Rennes

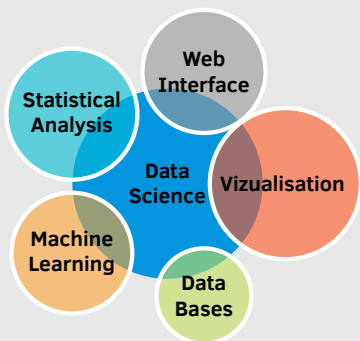
**Master of Mathematics**

**Statistics and Computer Science**

High distinction

2008 - 2010 | Université d'Orléans

## Skills



## Programming



HTML/PHP/CSS • SQL •  $\text{\LaTeX}$

C • C++ • Python

## Languages

French ★★★★★  
English ★★★★★  
Spanish ★★★★★

## Hobbies



## Experience

- 2018 - 2019 **R&D Data Scientist at Royal Canin** (Now) **KapaIT** (Montpellier)  
CDI Data wrangling and cleaning. Web applications development for statistical analysis (mixed models) and data handling in **R**. Text mining and sentiments analysis on tweets with **R**.
- 2017 **Data Science Research Engineer** (6 months) **INRA** (Montpellier)  
CDD Statistical modeling and spatial analysis in **R**. Simulation of plant phenotype. **R** package development.
- 2017 **Data scientist** (3 months) **ThinkR** (Paris)  
Freelance Medical data analysis and vizualisation (ggplot2) and reporting (ReporteRs). Teaching/coaching en **R**.
- 2016 **Mathematics teacher** (6 months) **Éducation nationale** (Toulouse)  
CDD Mathematics teacher in High School.
- 2015 - 2016 **Data manager** (1 year) **Belgatech** (Bruxelles)  
CDI Data management, statistical analysis and data mlining with **R** to predict elevator breakdowns. Supervision of technical staff. Project management. Writing reports, calls for tenders, quotations.
- 2010 - 2014 **PhD student in Data Science in Biology** (3.5 years) **INRA** (Rennes)  
CDD Predictive modeling of cows fertility. Logistic regression, machine learning, clustering in **R**. Statistics teaching, communication (international conferences), writing (scientific papers).
- 2009 - 2010 **Master's degree internships** (3 and 6 months) **INRA** (Orléans)  
Internships Predictive modeling for breeding value with BLUP: comparison of various software. Fortran, **R** and VBA programming.

## Research

### PhD thesis

*Statistical methods of Functional Data Analysis applied to growth and lactation dynamics of dairy cows*, 2014

### Article

*Non-parametric approaches to the impact of Holstein heifer growth from birth to insemination on their dairy performance at lactation one*, Journal of Agricultural Science, 2013

### Conferences

*Tidyverse, course and exercises*, R-Ladies Montpellier meetups (co-founder/ organizer/ animator), 2018-2019

*tripdown : un package pour créer des blogs de voyage*, 7èmes Rencontres R, 2018

*Prediction of success of insemination with past daily milk yield with a functional generalized linear model*, 4th Channel Network Conference of International Biometric Society, 2013

*Prédiction d'un événement binaire à partir de données fonctionnelles*, 2èmes Rencontres R, 2013

*Influence du profil de croissance des génisses Prim Holstein sur leurs performances laitières en première lactation*, 19èmes Rencontres Recherche Ruminant, 2012

### Vulgarisation of science

*StatistiX et le problème de la potion magique*, 1st award of the Festival Sciences en cour[t], 2012