



# Julien Hernandez Lallement, PhD

**DATA SCIENTIST, DATA MANAGER, COGNITIVE NEUROSCIENTIST**

## MiniBio:

Data scientist with 10 years experience in data analysis, modelling and statistics, as well as visualization and storytelling.

Researcher & scientist by nature, I combine my expertise in data with my extensive project management experience to deliver interpretable, scaled and insightful data products.

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Birth: 28/02/1986



## WORK EXPERIENCE

### Oct 2019 **Principal Data Scientist**

**Now** Orsay, [Germany](#).

- Evaluate demands from stakeholders to evaluate need and **translate to suitable data product**.
- Develop, implement, test and deploy **Machine Learning models** at large scale.

*Ex: developed purchase and churn models that increased ROI by 49% through retargeting. Implementation on Google Cloud and integrated within internal BI universe.*

- Provide **data visualization tools** and dashboard to enable informed and data driven decisions.

*Ex: developed series of Tableau dashboard to monitor marketing channels. Deployed and automatized the update of the data on a daily basis through Google Cloud based code.*

- **Problem solver** on a daily basis, providing non ML solutions.

*Ex: marketing campaign automatization (SalesForce compatible), customer selection, data pipes*

- **Workshop organizer** to disseminate Python and Machine Learning horizontally and vertically within the company.
- First initiator of **cloud-based activities**, and main actor in BI-Cloud process migration.
- Act as active link between tech and non-tech stakeholders and aligned participants over a common goal.

### Aug 2016 **Behavioral Datascientist / Neuroscientist**

**Sep 2019** Netherlands Institute for Neuroscience, [The Netherlands](#).

- European project coordinator. Founded a technique to assess neural networks of empathy.
- Provided day-to-day **data extraction & analysis** (Python, MatLab) & modeling (R & Rstudio).
- Established **analysis pipelines** for different data streams.
- Performed **meta-analytic processing** & analysis on large online databases.
- Performed **parametric and non-parametric statistics** (frequentist; SPSS & Bayesian statistics; JASP).
- Worked with **Machine Learning** classifiers (JABAA) and DeepLearning approaches (DeepSqueak)
- Successfully **managed schedule, cost, scope and communication** over a 3 years period.
- Presented at **international conferences** and organized symposiums together with worldwide experts.
- **Managed and guided** a team of students (5/6 members).

### Oct 2011 **Doctorate - Psychology & Neuroscience**

**Apr 2016** Comparative Psychology Lab, [Germany](#).

- Developed MatLab scripts (bootstrap, permutation, binomial test) to study decision making.
- Managed and guided >10 students.
- Presented and discussed data in weekly scientific meetings and international scientific conferences.
- Held weekly lectures over a period of 3 years (audience 10-20 people).

### Oct 2010 **Data Analyst - NeuroImaging**

**Jun 2011** Life & Brain Institute, [Germany](#)

- Proposed & led a project about valuation of monetary gains in economic decisions.
- Developed neuroimaging experiment to investigating donation behavior.
- Elaborated the research case and convinced external parties for funding.



## HARD SKILLS

### Data Science, Analysis and Modeling

I am an expert in most ML algorithms (**Logistic and Linear Regressions & variations, SVM, Decision Trees & Ensemble variations, KMeans, KNN**) from mathematical background to business implementation. While familiar with other more complex algorithms, experience showed me that, **when paired with common sense & heuristics, the aforementioned equations can already do wonders in 95% of the cases.**

Below, a list of tools I use on a daily basis for different scope:

**Programming:** Python, SQL, MatLab, R, Pascal  
**Data processing:** SQL, Python (numpy, pandas, dask), R (dyplr, tidyverse).  
**Data exploration:** Python (plotnine, matplotlib, seaborn), R (ggplot2)  
**Data modeling:** Python (SciKit Learn, Keras). Bayesian modeling (RStudio/rstan, PyMC3).  
**Statistics:** Frequentist (parametric & non-parametric test; SPSS, SciPy), Bayesian (JASP, PyMC3)  
**Data Management:** PyCharm, Git, Python (pyscaffold)

### Project & Process Management

**PMP Certified Project Manager** (>12.000h of project management audited)

**SCRUM Master Certified** (SCRUM Alliance)

**Lean Process Management** (Six Sigma Yellow Belt certificate)

### Reporting & Presentation





























**10 publications**, cited > 250 times

Held > 50 talks, with audience between [10-100] people

### Teaching

Course Coordinator @ Amsterdam; weekly 2h seminars for 3 years; Workshop Organiser.

### Languages

		SPOKEN	READ	WRITTEN	
	FR				 Native language  Full Profess. Proficiency  Good Profess. Proficiency  Limited Profess. Proficiency
	ES				
	EN				
	DE				
	IT				
	NL				



## SOFT SKILLS

- **Adaptability:** Integrated in work environments across 5 countries
- **Leadership:** Articulate the projects' vision, align stakeholders, and maximize their potential
- **Communication:** Managed projects involving > 5 layers of hierarchy
- **Networking:** Reached out and established collaborations with world-wide experts
- **Curiosity:** Visited > 60 countries



## EDUCATION

- Master Neuroscience University Bordeaux II, **France**, 2010
- Bachelor - Cellular Physiology & Behavior. University Bordeaux I, **France**, 2008



## AWARDS AND DISTINCTIONS

- |  |           |
|--|-----------|
| • Marie Curie European Fellowship              | 165.000 € |
| • Machine Learning Workshop                    | 10.000 €  |
| • Netherlands Institute for Neuroscience Funds | 9.000 €   |
| • Meta-Analysis Workshop                       | 6.000 €   |