



# Julien Hernandez Lallement, PhD

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

## MiniBio:

Data scientist with 10 years experience in data analysis, modeling 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.

(+49) 178 80 26 978

[julien.hernandez.lallement@posteo.net](mailto:julien.hernandez.lallement@posteo.net)

[lallement@posteo.net](mailto:lallement@posteo.net)

Birth: 28/02/1986

French & Spanish



## WORK EXPERIENCES

### 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: used TF-IDF to assess text tendencies in marketing communications and propose new strategies.*

*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: Tableau dashboards monitoring KPIs. Deployed and automatized the data update through GCP-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**

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

- Provided day-to-day **data extraction & analysis** (Python, MatLab) & modeling (R & Rstudio).
- European project coordinator. Founded a technique to assess neural networks of empathy.
- 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; held weekly lectures over a period of 3 years (audience 10-20 people).
- Presented and discussed data in weekly scientific meetings and international scientific conferences.
- Published [PhD Thesis](#).

### 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 specialized in classic 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 business cases.**

**Cloud Engineering:** Google Cloud Platform (see [here](#) and [here](#) for use cases)

**Programming:** Python, SQL, MatLab, R, Pascal

**Data processing:** SQL, Python (numpy, pandas, dask), R (dyplr, tidyverse).

**Data visualization:** Python (plotnine, matplotlib, seaborn), Tableau

**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

Data Science writer on [Medium](#)

### 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 €   |