



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.

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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**

Oct 2016 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

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