

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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WORK EXPERIENCES

Principal Data Scientist

Orsay, Germany. Now

- 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

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.
- 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**

Life & Brain Institute, Germany Jun 2011

- 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

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

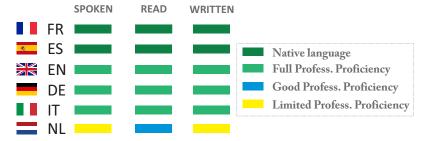
Held > 50 talks, with audience between [10-100] people

Data Science writer on Medium

Teaching

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

Languages





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 €

Meta-Analysis Workshop