



Julien Hernandez Lallement, PhD

DATA SCIENTIST, DATA MANAGER, COGNITIVE NEUROSCIENTIST

MiniBio:

I am a multidisciplinary data scientist with +10 years expertise in data analysis, modeling and visualization, as well as statistics and storytelling. I am a certified PMP project manager and SCRUM master with solid skills in guidance & leadership.

Contact:

(+31) 614490953

julien.her@gmail.com

Birth: 28/02/1986

Location: Amsterdam



WORK EXPERIENCES

Oct 2016 **Principal Data Scientist**

Now Orsay, Germany.

Principal Data Scientist at Orsay, focusing on data solutions in retail.

Description:

- Evaluate demands from tech and non-tech stakeholders to assess suitable data product.
- Develop, implement, test and deploy Machine Learning models at large scale.
- *Ex: developed purchase and churn models that led to 49% increase in ROI, and reduction in target yielding 89K € saved*
- 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 based on heuristics & common sense.
- Workshop organizer to disseminate Python and Machine Learning horizontally and vertically within the company.
- First initiator of cloud-based activities, and leader in BI-Cloud process migration.
- Act as active link between tech (IT & Controlling department) and non-tech stakeholders, and aligned participants over a common goal

Behavioral Datascientist

Aug 2016 Netherlands Institute for Neuroscience, The Netherlands.

Oct 2016 European project coordinator. Founded a technique to assess neural networks of empathy.

Description:

- 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 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).

Doctorate - Psychology & Neuroscience

Oct 2011 Comparative Psychology Lab, Germany.

Apr 2016 Established new behavioral tools, developed models of psychopathy, explored the neural bases of social behavior.

Description:

- Developed MatLab scripts (bootstrap, permutation, binomial test) to study decision making.
- Managed stakeholders, communication, schedule and risk over a 4 years period.
- 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).

Research Fellow - NeuroImaging

Oct 2010 Life & Brain Institute, Germany.

Jun 2011 Proposed, led and implemented a project to study how effort impacts valuation of monetary gains in economic decisions.

Description:

- Developed neuroimaging experiment to investigating donation behavior.
- Elaborated the research case and convinced external parties for funding.
- Managed schedule & communications.



HARD SKILLS

Data Science, Analysis and Modeling

Programming: Python, SQL, MatLab, R, Pascal

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

Data exploration: Python (plotnine, matplotlib, seaborn), R (ggplot2)

Data modeling: Python (SciKit Learn, Keras). Bayesian modelling (RStudio/rstan).

Statistics: Frequentist (parametric & non-parametric test; SPSS), Bayesian (JASP)

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)

Graphic Design & Editing

CorelDraw, Adobe Photoshop, ImageJ

Professional Writing

10 publications, cited > 250 times





























Public Speaking

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

Teaching

Course Coordinator at AUC; weekly 2h seminars for 3 years

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:** Articulated the projects' vision, aligned stakeholders, and maximized their potential
- **Communication:** Managed projects involving > 5 layers of hierarchy
- **Networking:** Reached out and established collaborations with world-wide experts
- **Curiosity:** Visited > 50 countries



EDUCATION

- Master NeuroPsychoPharmacology. University Bordeaux II, **France**, 2010
- Internship - Executive Function. INSERM, Lyon, **France**, 2009
- Bachelor - Cellular Physiology & Behavior. University Bordeaux I, **France**, 2008
- Internship - Electrophysiology. Electrophysiology Laboratory in Monserrato, **Italy**, 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 € |