

Didier Marin

Software & Data Engineer, Tech Lead, PhD in AI

<https://didiermarin.com/contact>

Work Experience

2013/09-2022/09 Technical Expert and Partner; [Heuritech](#), Paris, France

Heuritech offers fashion brands predictive analytics on trends and products. As part of the founding team, I have played a strategic role leading software and data engineering on Heuritech's most challenging projects.

- **Lead dev, Core Data Pipeline:** processing 3M+ social media posts/day with Deep Learning-based image analysis (Python, Prefect, MongoDB, BigQuery, FastAPI)
- **Tech lead managing 12 people:** project management (Scrum master, JIRA), technical decisions, best practices and code quality guidelines, CI processes (Gitlab CI)
- **Lead dev, Data Analytics Platform with Natural Language Processing (NLP):** processing connection logs from +700 top French websites (200M events/day) to extract topics of interest using inhouse NLP models, for digital marketing campaigns (Scala, Play Framework, Spark, Cassandra)

2009/10-2013/08 Researcher and Teaching Fellow; [Institute of Intelligent Systems and Robotics \(ISIR\)](#), Paris, France

- Conception of a Reinforcement Learning-based (RL) adaptive control system for sit-to-stand assistance on a smart walker robot, tested with patients in a geriatric center ([European project AAL DOME0](#)) (Python, C, Arduino, ROS, OROCOS)
- Modeling human motor control on a reaching task using RL, Imitation Learning and Evolutionary algorithms (Java, Python)
- Trainee supervision and teaching assistant for an international MSc in rehabilitation robotics

Education

2009-2013 PhD, Artificial Intelligence; [Sorbonne University](#), Paris, France

2007-2009 M.S., Artificial Intelligence; Sorbonne University

Skills

Programming Languages and Frameworks	Python (12 yrs XP): Numpy, Pandas, SciPy, Matplotlib, Flask, FastAPI, Pydantic, Prefect Scala / Java (4 yrs XP): Apache Spark certified developer[^1], Play Framework Javascript / Typescript (personal projects): React, Material UI, Ionic, Firebase
Databases	PostgreSQL, MongoDB, Cassandra, ElasticSearch
Cloud	GCP (BigQuery), AWS
Tools	GNU Linux, Docker, Kubernetes, Gitlab CI, JIRA
Languages	French (native), English (fluent), Japanese (limited working proficiency), German (notions)