

# Stephane Couvreur

## Data Scientist

### SUMMARY

A young team playing data scientist. I have a passion for machine learning and big data, real-time processing and distributed systems. My experience has been in computer vision for medical images, and graph analytics for anti money laundering.

### EXPERIENCE

OCTOBER 2018 – PRESENT

Data Scientist  
*Feedzai, Lisbon*

- Developed tree-based machine learning models detecting transaction fraud with 57% recall at 1% FPR. The models performed at peak throughputs of 2000 events per second with sub-200ms latency at five nines.
- Implemented data processing pipelines in Apache Spark and Hadoop to train models on up to 1B rows of historical data, and inject the data into production databases (DynamoDB & Cassandra) prior to deploy.

JUNE 2017 – SEPTEMBER 2018

Research Assistant  
*Great Ormond Street Hospital, London*

- Embedded in a team of engineers and clinicians working on applications of data science in paediatric cardiology.
- Developed data mining and unsupervised machine learning tools in Python and R to extract useful clinical patterns in cardiac magnetic resonance imaging (CMRI).
- Accelerated medical image segmentation workflow using convolutional neural networks trained on labelled images in Tensorflow. Whole-heart computer vision workflow achieved an AUC of 0.752.
- Two successful grant applications from NVIDIA and Medtronic totalling £2500.

### PROJECTS

HACKATHONS    Alibaba Cloud Tianchi, London – Jan 2018  
                      Kaggle Days, Dubai – April 2019

POSTERS            UCL Launch Campaign – 2016

### TECHNOLOGIES

Intermediate Knowledge    Matlab, C/C++, Awk, Sed,  
   $\LaTeX$ , Git, Theano, PyTorch

Advanced Knowledge    Python 3, R, Bash, PostgreSQL,  
  Tensorflow, Keras,  
  Apache Hadoop, MapReduce, Spark

🏠 Estr. da Luz, 1600-160, Lisbon, Portugal  
☎ +351 (0) 919 760 832  
✉ [stephane.couvreur.sueron@gmail.com](mailto:stephane.couvreur.sueron@gmail.com)

🌐 [scouvreur.github.io](https://scouvreur.github.io)  
[github.com/scouvreur](https://github.com/scouvreur)  
[linkedin.com/in/stephanecouvreur](https://linkedin.com/in/stephanecouvreur)

### EDUCATION

2013 – 2017    **Master of Engineering (1st, Hons)**  
                      MECHANICAL ENGINEERING  
                      *University College London (UCL)*  
                      Specialization in medical  
                      engineering and computing.

2010 – 2013    **French Baccalaureate (Hons)**  
                      SCIENCES  
                      *Lycee Francois 1er Fontainebleau*  
                      Specialization in mathematics,  
                      physics and chemistry (A\*A\*A).

### AWARDS

Oct 2018    **Zaickathon Brand Award**  
                      Award out of 30 teams for creating a team  
                      slide interface to Google Slides by scraping  
                      HR data from Namely.

Sep 2017    **EPSRC Summer Studentship Prize**  
                      Awarded to a summer studentship  
                      student for the best research project  
                      from a pool of 30 candidates.

Nov 2016    **Blonstein Prize**  
                      Awarded to a third year student for  
                      the best overall performance in Design.

### INFORMATION

LANGUAGES    English, French - fluent  
                      Portuguese, Spanish - conversational

MEMBERSHIPS    Data Science Portugal

### REFERENCES

DR. GANHAO    *Data Science Lead*  
                      Feedzai, Lisbon  
                      ✉ | [fjs.ganhao@gmail.com](mailto:fjs.ganhao@gmail.com)

DR. SAUVAGE    *Project Supervisor*  
                      Great Ormond Street Hospital, London  
                      ✉ | [e.sauvage@ucl.ac.uk](mailto:e.sauvage@ucl.ac.uk)