

# SebastienCampion

24 Mars 1980

## contact

23, rue Belair  
L8214 Mamer  
Luxembourg  
*Moving in Brussels on  
1<sup>st</sup> July*

+0 (33) 6 47 31 11 37

sebastien.campion@pm.me  
github.com/scampion  
<http://www.scamp.fr>

## languages

french mother tongue  
english & spanish

## skills

Solution/Technical  
Architect, Leading  
people, Building  
high-performing teams,  
Manage multiple client  
priorities  
simultaneously,  
Implement proof of  
concept, Scientific  
Computing &  
Algorithms,  
Machine/Deep  
Learning.

## experience

2019 - now **PricewaterhouseCoopers** / Advisory 2700 employees

Luxembourg, Luxembourg

### **Project Manager & Data AI Architect at Directorate-General for Taxation and Customs Union for European Commission.**

Manage, design and implement a complete data science pilot platform dedicated to large scale real-time analysis for European Commission / Taxation and Customs Union Department.

- Analysis, comprehension, and technical translation of operational needs.
- Tailored integration of a self-service solution enabling cross-functional organizational model and data governance guarantee.
- Hybrid architecture between free and open-source software and proprietary software to preserve IT sovereignty with horizontal scaling capability.
- Use case implementations on machine and deep learning projects for geocoding prediction and a large-scale similarity search engine.
- Manage and support end-users training.

2017 - 2019 **INRIA** / French Academic Research Institute 2500 employees

Rennes, France

### **Research engineer in Cybersecurity.**

Research topics were ransomware detection, malware analysis using machine learning techniques, and cryptographic protocols (Signal).

- Contributing to scientific experimentations.
- Design infrastructures and software.
- Requirements analysis and bootstrap projects.
- Establishing roadmap.
- Supervising projects and team-leading.
- Recruiting.

### **Technical director for high security laboratory.**

2015-2017 **Mediego** / Startup

Rennes, France

### **Co-Founder and CTO**

The solution developed enables to compute efficient and fast recommendations for emailing based on the user's web navigation.

- Product manager.
- Team leading.
- Market study.
- Pre-sales client analysis.
- Proof of concept.
- Support.

2007-2015 **INRIA** / French Academic Research Institute 2500 employees

Rennes, France

**Research engineer for efficient exploration and indexing in very large multimedia databases.**

- Contributing to scientific experimentations
- Managing our platform for indexing multimedia contents
- Coarse-grain distributed computing
- Developing and improving scientific prototypes
- Elaborating corpora / ground-truth for experimentation's evaluations
- Publishing demo and online web services

**Technical director for INRIA forge**

| 14 000 users | 4 300 projects |

2002-2007 **Orange Labs** / France Telecom R&D 130 000 employees

Rennes, France

**Junior Project Manager for TV/VOD metadata management networks.**

- Project on metadata aggregation service for multimedia contents distributed on Orange's networks (IP, ADSL, Mobile)
- Mobile TV project: specification and development of an electronic service guide for mobile terminals through an experimentation handled to DVB-H (Digital Video Broadcasting standard).
- Development of TV/VOD portal access by Orange ADSL TV Set Top Boxes.

2001 **Thomson Grass Valley**

Rennes, France

*Internship (3 months)*

Development of a web monitoring tool which centralize logs generated by various MPEG2 audiovisual appliances (gateway, encoder, multiplexer, decoder, ...)

## consulting & teaches

- Expert for the claiming of research tax credit (CIR) by the French Ministry of Higher Education and Research
- Expert trainer in software development for lawyers at IEEPI  
<http://bit.ly/ieepi-scampion>
- Lesson on open source development and Research - Master degree Research  
<http://scampion.github.io/devoss>
- Practical work for "Multimedia Machine Learning Tutorials" - Master degree  
<https://github.com/scampion/multimedia-machine-learning-tutorials>

## education

1999-2002 **Master's degree in Engineering** of Computer Science and Telecommunications

ESIR, University of Rennes 1, France

Specialization in language and computer system.

1997-1999 **DEUG (two-year university degree)** Physics and Chemistry

University of Rouen,

France

Specialization in computer science

## publications

- Aug 2020 **Multi-Device for Signal** Applied Cryptography and Network Security, Roma, Italy  
**Keywords:** cryptography, secure instant messaging, ratchet, multi-device
- Sep 2014 **Audio thumbnails for spoken content without transcription based on a maximum motif coverage criterion** Annual Conference of the International Speech Communication Association, , Singapour, Singapore.  
**Keywords:** : spoken content processing, audio mining, motif discovery, summarization, thumbnailing.
- Aug 2013 **MODIS: an audio motif discovery software. Show and Tell** Interspeech 2013, Lyon, France.  
**Keywords:** : word discovery software, pattern matching, unsupervised learning, dynamic programming .
- Oct 2012 **Efficient Mining of Repetitions in Large-Scale TV Streams with Product Quantization Hashing.** ECCV, Firenze, Italy.  
**Keywords:** : large scale, product quantization hashing .
- Jun 2012 **Texmix: an automatically generated news navigation portal**ICMR - ACM, Hong-Kong, China.  
**Keywords:** : HTML5, hypervideo, topic segmentation, speech to text, named entities, similar images, dynamic resume, geotagging.
- Oct 2010 **AVSST- an Automatic Video Stream Structuring Tool** NEM Summit, Barcelona, Spain  
**Keywords:** TV Stream, Indexing, Structuring, Repetition detection, Classification, EPG, metadata, DTW
- April 2007 **Service Platform for Converged Interactive Broadband Broadcast and Cellular Wireless** IEEE Transactions on Broadcasting  
**Keywords:** : Multimedia, Digital video broadcasting, Multimedia systems, Cellular networks, Content management.

## patents

- Sep 2004 **Procédé d'enregistrement thématique de contenus numériques à diffusion programmée** fr 0300882
- Sep 2004 **Procédé d'enregistrement, avec mise à jour, de contenus numériques à diffusion programmée** fr 0300883