

# Lucien Maman

PHD STUDENT · SOCIAL SIGNAL PROCESSING/AFFECTIVE COMPUTING

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## Education

### LTCl, Télécom Paris, Institut Polytechnique de Paris

Paris, France

PHD ON THE AUTOMATED ANALYSIS OF COHESION IN SMALL GROUPS' INTERACTIONS

Jun. 2019 - PRESENT

- **International collaboration** with the Casa Paganini - InfoMus Lab (Genoa, Italy)
  - Creation of a Multimodal Dataset for Cohesion and Group Analysis.
- **Supervision of a master student:** Development of new features using motion capture data and models to study cohesion
- **Teaching associate:** Software engineering supervisor for PACT (Thematic collaborative learning project)
- **Teaching assistant:** Hidden Markov Model, Neural Networks

### Cranfield University

Cranfield, U.K.

MSC COMPUTATIONAL & SOFTWARE TECHNIQUES IN ENGINEERING

Sep. 2016 - Sep. 2017

- **Modules:** Computational Methods, C++, Management for Technology, Requirement Analysis and System Design, Software Testing and Quality Assurance, High Performance Computing, Computer Graphics, Cloud Computing, Advanced Java.
- **Computer Science project:** Creation of a software handling plugins for aircraft design.
- **Master thesis:** Development and improvement of the features of an artificially intelligent business advisor.

### ESTIA (Ecole Supérieure des Technologies Industrielles Avancées)

Biarritz, France

ENGINEERING DEGREE

Sep. 2014 - Sep. 2017

- **Modules:** Advanced Programming, Real-time System, CAD, Numerical Simulations, Principles of Management, Basic Electronics, Composite Materials, Automation.
- **Group projects:** Creation of an application and a module to control the light in a room via a smartphone ; Development of a robot in a hospital environment (CAD) and its interface (JAVA SWING)

## Skills

<b>Programming</b>	<b>Advanced:</b> Python, C/C++, JAVA, Ruby, LaTeX.
	<b>Confident:</b> OpenCV, OpenGL, MPI, Rivescript.
	<b>Notions:</b> QT, bash, terraform, MySQL, CUDA.
<b>Web</b>	Cloud computing, Ruby on rails, HTML/CSS, PHP
<b>Mobile</b>	Objective-C, Swift, Android Java.
<b>CAD</b>	CATIA V5, SolidWorks, Ansys
<b>Languages</b>	French (native), English (fluent), Spanish (intermediate)
<b>AGILE methodology</b>	Experienced with the role of Scrum Master

## Experience

### Grabyo

London, U.K.

VIDEO ENGINEER

Oct. 2017 - Jun. 2019

Grabyo is a browser-based live video production suite integrated with popular social media platforms such as Facebook, YouTube and Instagram. The cloud-based technology is used by major sports federations and media companies to produce professional-quality live streams and video clips for digital audiences.

- Improved the security over the key components of the platform.
- Reduced the monthly cost of the global architecture by £10k by implementing a new workflow.
- Developed a new search feature using image recognition and AWS services to give context to videos.

## BRiN (now Bizversity)

MOBILE APPLICATION DEVELOPER INTERN

Gold Coast, Australia

Apr. 2017 - Aug. 2017

BRiN is the world's first artificially intelligent business advisor, designed to educate and support entrepreneur's needs. They sponsored and allowed me to use my results to write my MSc thesis.

- Bug corrections and testing in iOS and Android platforms.
- Improved the chat using Rivescript, Python and Node JS.
- Integrated the voice recognition feature.

## R&D department of the Exploration and Production section at TOTAL

ENERGY ENGINEER INTERN

Pau, France

May 2016 - Aug. 2016

Established in 1924, TOTAL is one of the seven "Supermajor" oil companies in the world. Its businesses cover the entire oil and gas chain.

- **Internship program:** How can we produce water from the air using energy resources on site?
- Studied the existing water production systems and energy audits and pre-sized solar panels.
- Set up experiments to confirm the study results.

## SPORT CONTROLE

RESEARCH ENGINEER INTERN

Biarritz, France

Feb. 2015 - Apr. 2015

Founded in 2008, SPORT CONTROLE is a small consulting sports medical company that develops and tests innovative products to meet demand in the field of sport, leisure and well-being.

- Marketing (benchmarking, mapping, meeting the client's requirements), setting up a new project to test a helmet which minimises micro-trauma linked to sport activities.
- Designing a test bench to test the helmets by dropping them and carrying out the test.

## Watever NGO

INTERN

Paris, France

Jun. 2013 - Jul. 2013

Watever is a NGO created in 2010 which brings assistance to people in need living along the shores of rivers and oceans.

- Study of the use of bamboo for shipbuilding. Sourcing and contacting with potential sellers.
- Website management: daily updates and editing to promote events.

## Publications

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### JOURNALS

- 2020 Maman, L., Ceccaldi, E., Lehmann-Willenbrock, N., Likforman-Sulem, L., Chetouani, M., Volpe, G. & Varni, G. 2020. GAME-ON: A Multimodal Dataset for Cohesion and Group Analysis. IEEE Access

Under review

### CONFERENCES

- 2020 Maman, L., Varni, G. 2020. GRACE : Un projet portant sur l'étude automatique de la cohésion dans les petits groupes d'humain. Workshop on "Affects, Compagnons Artificiels et Interactions" - 2020

Accepted

## Extracurricular Activity

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### Montpellier Herault Rugby & other

RUGBY PLAYER

France, U.K and Australia

Jun. 2012 - PRESENT

- **Semi-professionally** for Montpellier Herault Rugby (France) and Surfers Paradise Rugby Union Club (Australia).
- **Professionally** for Biarritz Olympique (France) and Richmond Football Club (U.K.).
- **Amateur level** for Paris Université Club (France) - current club.
- Often appointed captain, I improved my ability to motivate a team and speak in public.
- Cultivated a strong team spirit and a natural ability to react and work under pressure.

### EPIKOA, ESTIA's student Union

CORE MEMBER

Biarritz, France

Sep. 2015 - Sep. 2016

- Organized social and cultural events at ESTIA. The biggest one involved around 700 participants.
- Helped to find new funds and sponsors.