Mathieu **Gaborit**

PHD CANDIDATE

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"The secret of getting ahead is getting started."

Education

PhD
Le Mans, France
Stockholm, Sweden

UNIVERSITÉ DU MAINE – KTH ROYAL INSTITUTE OF TECHNOLOGY
2016 –

- Goals: Modelling imperfect interfaces
- Keywords: poroelastic materials, simulations, homogeneisation, boundary conditions, interfaces, stochastic models
- Advisors: O. Dazel (UNAM, FR) & P. Göransson (KTH, SE)

MSc. in Acosutics
Le Mans, France

UNIVERSITÉ DU MAINE
2015 – 2016

- 1ˢᵗ Year Application Project: *Coupling of FEM & DGM methods*
  Advisor: O. Dazel
- 2ⁿᵈ Year Application Project: *Modelling uncertainties at interfaces for poroelastic materials*
  Advisors: O. Dazel & P. Göransson (KTH, SE)
- Major

BSc Engineering Science – Acoustics specialisation
Le Mans, France

UNIVERSITÉ DU MAINE
2011 – 2014

- 3ʳᵈ Year Application Project: *Modes in rigid and lined ducts*
  Advisor: W. Bi
- Ranked as "good"

A Level – Scientific Track
La Roche sur Yon, France

LYCÉE SAINT JOSEPH
2008 – 2011

- Majors : Mathematics & Engineering Science
- Minors : Latin & Music
- Awarded "very good" grade

Skills

Programing	Python, Perl, GNU Octave/Matlab, C/C++, LaTeX
Tools	GNU/Octave, Jupyter, Git, GNU/Linux
Languages	French, English

Experience

Self-employed
Le Mans, France

CONSULTANT
Oct. 2014 –

- Architecture and data processing
- Design of a customer-tracking solution and product recommendation engine for a e-commerce website (not implemented).

Makershop
Le Mans, France

TECHNICAL ADVISOR FOR 3D PRINTING (MISSION)
Oct. 2014 – Feb. 2016

- Testing, analysis, benchmarking & repairs on machines
- Shows & exhibitions, advisory & customer-specific expertise.
- Coordination with several international industrial partners.

CCI du Mans et de la Sarthe
Le Mans, France

CONSULTANT
Juin 2014 - Sep. 2014

- Setup of a Fablab.
- Specifications writing to develop a collaborative prototyping space.
- Coordination with several industrial & institutional partners.

Extras

HAUM – Hackerspace Au Mans
CO-FOUNDER

Le Mans, France

Sep. 2011 –

- Setup of the student-oriented hackerspace.
- Legal creation of the organization in 2012.
- President from Nov. 2012 to Nov. 2015.
- Community development, projects, conferences & several events.
- Website: haum.org

24 Heures du Code
ORGANISER

Le Mans, France

2014 – 2016

- Submitted problems :
  2014 A Firefox OS application on transportation open-data (partner: Mozilla Foundation)
  2015 Urban Flow : opendata-based arena for artificial intelligences
  2016 SartheDev API : unsual exploration of open datasets
  2017 Laumii : software/hardware enigma game
- Planning and *in-situ* event management

Sample.Cat
CO-FOUNDER

Le Mans, FR — Sheffield, UK

Dec. 2015 –

- Analysis of social media streams after social crisis.
- Hybrid Project: statistical analysis, machine learning, sociology
- Several conferences :
  - HAUMTalks #3 – *#ParisAttacks : A pretext to sentiment analysis on social media (fr)*
  - PSES-HSF 2016 – *How Twitter activity shows sentiments of a shocked population?*
- Innovative techniques to gather, store and analyse large datasets.
- Website: sample.cat

Presentations

Versioning for fun and profit
LAB SEMINAR — LAUM

Le Mans, France

February 2017

- Introduction to the git versionning software

Coding: Best Practices & Tools
MWL LUNCH SEMINAR

Stockholm, Sweden

June 2016

- Tools to ease development & maintenance of a scientific codebase.

Various talks
HAUMTALKS

Le Mans, France

2016-

- **Acoustics: do you hear me ?** Mediation talk on the ear, its anatomy and functions.
- **Prepare your talk** How-to talk on talk preparations, 4 styles in 20 minutes.
- **Hackerspace Sweet HAUM** Philosophical discussion on the topic of hackerspaces and the hacker movement
- **Modelling and errors in science** Discussion about the main tools of scientific thought.
- **#ParisAttacks : A pretext to sentiment analysis on social media**
  Early introduction of the sample.cat project aiming at analysing sentiment at a population-scale
  after Paris terrorist attacks in November 2015

Git Workshop
RUCHE NUMÉRIQUE

Le Mans, France

2015

- Introduction to the tool and 3h workshop.

Participations

2017	**YAN Board member**, Newsletter and IT management	*Europe*
2016	**Staff HAUM**, Festival D 2016 — Project: Pong 1D	*Nantes, France*
2016	**Organiser**, 2nd Global Game Jam in Le Mans	*Le Mans, France*
2016	**Scientific Committee (partner: Sarthe Développement)**, 24H du Code	*Le Mans, France*
2015	**Staff HAUM**, Festival Teriaki — Project: dHAUM	*Le Mans, France*
2015	**Organiser**, 1st Global Game Jam in Le Mans	*Le Mans, France*
2015	**Scientific Committee (partner: SETRAM)**, 24H du Code	*Le Mans, France*
2014	**Staff HAUM**, Siestes Teriaki — Projects: Pong 1D & PianoStairs	*Le Mans, France*
2014	**Scientific Committee (partner: Mozilla Foundation)**, 24H du Code	*Le Mans, France*

Publications

2017

M.G., O. Dazel, J.-P. Groby, L. Schwan, T. Weisser, P. Göransson. **Coupling Bloch waves and Finite-Element models**. In: DENORMS CA15125.

2016

O. Dazel, **M.G.**, G. Gabard. **Couplage des méthodes MEF/DGM ondes planes**. In: *Session Modèle et Modélisation numérique en vibroacoustique*. CFA/VISHNO. Le Mans, France.

M.G., O. Dazel, G. Gabard, P. Göransson. **Couplage entre la MEF et la DGM avec ondes planes**. In: JJCAB 2016. Marseille, France.

2015

O. Dazel, **M.G.**, G. Gabard. **Couplage entre la MEF et la DGM avec ondes planes pour l'acoustique**. In: *S04 Nouveaux résultats et modèles en interaction fluide-structure*. 22ème Congrès Français de Mécanique. Lyon, France.