Mathieu **Gaborit**

MSc Student — Hacker — Consultant

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"The secret of getting ahead is getting started."

Education

MSc. in Acosutics
Le Mans, France

UNIVERSITÉ DU MAINE
2015 –

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

BSc Engineering Science – Acoustics specialisation
Le Mans, France

UNIVERSITÉ DU MAINE
2011 – 2014

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

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
Le Mans, France

CO-FOUNDER
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 *Le Mans, France*

ORGANISER *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
- Planning and *in-situ* event management

Sample.Cat *Le Mans, FR — Sheffield, UK*

CO-FOUNDER *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 ─────────────────────────

Coding: Best Practices & Tools *Stockholm, Sweden*

MWL LUNCH SEMINAR *Juin 2016*

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

Modelling iand errors in science *Le Mans, France*

HAUMTALKS #4 *2016*

- Discussion about the main tools of scientific thought.

#ParisAttacks : A pretext to sentiment analysis on social media *Le Mans, France*

HAUMTALKS #3 *2016*

- Early introduction of the sample.cat project aiming at analysing sentiment at a population-scale after Paris terrorist attacks in November 2015

Git Workshop *Le Mans, France*

RUCHE NUMÉRIQUE *2015*

- Introduction to the tool and 3h workshop.

Opendays : Opendata *Le Mans, France*

RUCHE NUMÉRIQUE *2015*

- Discussion about the progression of the opendata trend in Le Mans.

PostSummer RSync *Le Mans, France*

HAUMTALKS #2 *2015*

- Presentation of the work done to setup a fablab.

Participations ─────────────────────────

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

2016

Olivier Dazel, **M.G.**, Gwénaël Gabard, (2016). **Couplage des méthodes MEF/DGM ondes planes**. In: *Session Modèle et Modélisation numérique en vibroacoustique*. CFA/VISHNO. Le Mans, France.

2015

Olivier Dazel, **M.G.**, Gwénaël Gabard, (2015). **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.