

# Gerry Agbobada

PhD Student in Computational Mechanics

École Polytechnique Engineer

✉ gagbobada@gmail.com • in GAgbobada • 🌐 gagbo • Birthdate : 1990-12-29

*Available for a C/C++ software developer position in Jan. 2019*

## Education

**PSL Mines ParisTech (Centre de Mise en Forme des Matériaux)** **Sophia-Antipolis, France**

*PhD in Computational Mechanics supervised by P.-O. Bouchard, Y. Tillier*

*Oct 15 – Dec 18 (Exp.)*

- Development of a numerical tool to predict lifetime of dental composites (TOOTHBOX ANR Grant 16-CE08-0024)
- Design of a C++-based multiphysics computational homogenisation framework
- 2017 Pierre Laffitte Prize finalist

**Ecole Nationale Supérieure des Arts et Métiers ParisTech**

*Master of Materials Science (MAGIS)*

**Paris, France**

*Sep 14 – Jun 15*

- Polymer Lifecycle course (with high honours)

**École Polytechnique (Top Ranking French Institute of Technology)**

*Polytechnique Engineer – Master of Engineering*

**Palaiseau, France**

*Sep 10 – Dec 15*

- Several topics studied (Biology, Economics, Physics)
- Mechanics specialisation (Finite Elements, Plasticity, Shape optimisation and Materials Science)

## Experience

### Professional Experience

**Institut de Biomécanique Humaine Georges Charpak (IBHGC)**

*Research Intern in Computational Biomechanics (tutored by Wafa Skalli and Clayton Adam)*

**Paris**

*Jan 15 – Jun 15*

- Multiscale characterization and modeling of intervertebral discs (*DiscSim Project*)
- Image processing (MATLAB) to create a custom FE Model on ANSYS to enhance live tissue modeling.

**Robert Bosch GmbH**

*Research Intern in Computational Physics (tutored by Thomas Eckl)*

**Schillerhöhe, Germany**

*Mar 14 – Aug 14*

- Computational optimization of the microstructure of composite exchange-spring magnets
- Microscale modeling – FE Simulation using C++ – Automation via Bash/Perl scripting – Implementation on Linux cluster

**Procédés et Ingénierie en Mécanique et Matériaux (PIMM)**

*Research Intern in Material Science (tutored by Julie Diani, Pierre Gilormini)*

**Paris**

*Apr 13 – Jul 13*

- Temperature effects on viscoelastic behaviour of a bouncing polymer ball
- Experiment problem-solving – Heavy data treatment on MATLAB – Simulation on Abaqus
- Publication DOI:10.1007/s10853-013-7908-2

**French Army (Sécurité Civile)**

*Internship as instruction platoon leader*

**Nogent Le Rotrou, France**

*Sep 10 – Mar 11*

- Participated to military exercises aiming to make Army dependable when France sends international help on catastrophes (Japan nuclear accident and many domestic interventions, including fire fighting in summer)

### Volunteer Experience

**Open Source Society University**

*Selection of open computer science courses*

**Online**

*Sep 17 – Dec 18 (Exp.)*

- Curated list of computer science courses covering many subdomains
- Progress available on LinkedIn page

**Styx (Part of Student Association dedicated to organising student events)**

*Security & Logistics Manager*

**Palaiseau**

*Oct 11 – Oct 12*

- Equipment loan (Lights & Sound) for festive and other events which take place in the School and/or for the students
- Organization of *La Nuit du Styx 2012*, a festive night which gathered 2 000 people

## Other

### Languages

**French** Mother Tongue

**English** Fluent

**German** Professional proficiency

### Skills & Hobbies

**IT** C/C++, Python, LaTeX, Git (with automated tests and coverage)

**Software** Fedora Linux user since 2011, Abaqus, MATLAB

**Sports** Basket-ball (in club from 99 to 07), strong interest in US Football