

Gabriel Godefroy

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French nationality

Looking for an opportunity in computer science

Skills

Informatics

- C++** Oriented object and functional programming.
Frequent use to write standalone codes and SKUA-GOCAD plugins.
- Python** Frequently used for prototyping, scripting and to link applications.
- Javascript** Basic knowledge - rendering of 3D models within a webpage using WebGL library.
- Java** Basic knowledge - shape characterization in Total proprietary modelling suite.
- Linux** Daily user - bash scripting.
- CI** Continuous integration using Jenkins, GIT and unittest frameworks (Python and C++).

Languages

- English** Professional
- French** Mother tongue
- Italian** Notions
- Spanish** Notions

Subsurface modelling

- Geological modelling** Structural and property modelling using SKUA-GOCAD.
- Reservoir simulation** Basic knowledge of Eclipse and Intersect.

Work experience

- 2018–now (2 years) **Researcher in 3D modelling**, *Total - Geoscience Research Centre, Aberdeen, UK.*
In my current position, I am integrating structural uncertainty into ensemble-based history matching. Supervision of 3 MSc. projects.
- 2014–2018 (5 weeks) **Teaching assistant**, *Université de Lorraine, France and Freiberg University, Germany.*
At this tenure, I tutored C++ programming, SKUA plugin development and 3D modelling. 100 hours including 75 hours in English. Supervision of 3 MSc. projects.
- 2014, June–Sept (3 months) **Researcher (Internship)**, *ENI - Basin Geology department, Milan, Italy.*
During this internship, I implemented a numerical method to reconstruct eroded paleotopographies in C++.
- 2013, July–Aug **Software developer (Internship)**, *Total - Sismage development team, Pau, France*
- 2012, July **Trainee at Francepierre-PC**, *Jardres, France*
- 2011, July **Seasonal farm worker**, *Jardres, France*

Education

- 2014–2018 **Ph.D. in Geosciences**, *RING, GeoRessources, Université de Lorraine, France.*
Kinematic and stochastic fault modeling for structural uncertainty analysis (link to the pdf).
- 2013–2014 **Master of Science in Petroleum Geosciences**, *Université de Lorraine, France.*
Graduated with honors.
- 2011–2014 **Engineering degree**, *École Nationale Supérieure de Géologie, France.*
Specialized in Numerical Geology (C++ and Python programming, geological field trips).

Miscellaneous

- Badminton** Regulator competitor
- Photography** Amateur landscape photographer
- References** Available upon request

Links to my professional social networking pages:



LinkedIn



Google Scholar



ResearchGate