

Personal informations

Name Laurent Claessens

Birth May 17, 1980 in Bruxelles (Belgium)

Nationality Belgian

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Languages French (native), English and Italian (fluent), Dutch (passive)

What I'm searching

Type of employment I'm searching for :

- scientific research (mathematics, physics, ...)
- software development (Python, C++, Java already known)
- scientific computing, modelization, simulation.

Informatics abilities

- Install and use **Linux**,
- **Python** programming, including the mathematical module **Sage**.
- Object oriented programming in **C++** (second year in informatics level)
- Parallel programming in **Java** (third year in informatics level)
- Use of **Scilab**, **Mathematica** and **Matlab**.
- Redaction of scientific documents in **L^AT_EX**.

Education

2015-2016 Courses of C++, Java and numerical computing at the Padua University (Italy)

2013 *Agrégation* in mathematics.

2007-2008 Post-doctoral position in the Pennsylvania State University (USA) funded by the *Belgian American Education Foundation*.

2003-2007 Pdh in mathematics at *Université Catholique de Louvain* (Belgium). Dissertation title : *Locally anti de Sitter spaces and deformation quantization*[1] (differential geometry).

1999-2003 Master in physics at *Université Libre de Bruxelles*.

Professional activities

2012-2015 Teacher for *lycée* and *collège* (11-18 years old). I've written my preparations, exercises and evaluations in [2].

2008-2012 Many temporary positions in universities in Bruxelles, Louvain-la-Neuve (Belgium) and Franche-Comté (France).

- Team work : synchronize many groups of students following the same course,
- Pedagogical effort : answer the questions, or anticipate them.
- Official documents : create the exams, grading the students.

I have taught :

- mathematics for the students of the first three years in many areas : physics, engineering, biology, ...
- **Matlab** : an introduction for agronomics and physics major.

I have written down the courses, exercises and solutions[3],

Realisations

C++ I wrote a working backup program I'm using every day.

<https://github.com/LaurentClaessens/lora>

Java I wrote an actor system with an implementation that recursively replace every `\input` in a \LaTeX file by the content of the included file.

<https://github.com/LaurentClaessens/actors>

<https://github.com/LaurentClaessens/frtex>

Python A module that creates the `tikz` code to be included in \LaTeX .

<https://github.com/LaurentClaessens/phystricks>.

\LaTeX I wrote some large texts for my teaching as well as my research. As an example, this course of math for students :

<http://laurent.claessens-donadello.eu/pdf/lefrido.pdf>

References

- [1] Laurent Claessens. Locally anti de Sitter spaces and deformation quantization. Ph.D. thesis. 2007.
[arXiv:0912.2215\[math.DG\]](https://arxiv.org/abs/0912.2215)
<http://hdl.handle.net/2078.1/5354>.
- [2] Laurent Claessens. Un soupçon de mathématique sans être agressif pour autant. 2015. Document rassemblant mes préparations, les feuilles d'exercices et les corrections des devoirs que j'ai donné au collège et au lycée
<http://laurent.claessens-donadello.eu/pdf/smath.pdf>.
- [3] Laurent Claessens. Pour les étudiants. 2008-2015. Document rassemblant les notes de cours et les exercices pour les différents enseignements dans lesquels j'ai été impliqué
<http://laurent.claessens-donadello.eu/pdf/enseignement.pdf>.