

# Laurie Lugin

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## Skills

**Languages** Favorite: Python (Numpy, Pandas, scikit-learn, PyBrain, Matplotlib), C++

**and tools** Enjoy: Weka, SQL, Octave/Matlab, Ipython notebooks, C

Familiar: R, shell scripting, Java, Javascript,  $\text{\LaTeX}$

**Platforms** Linux    **Methodologies** Agile, Scrum    **Theory** Model-checking, Machine learning

## Experience

**Software engineer at RenaissanceRe, Dublin, Ireland**

Jan 2012 – Dec 2013

- Developed and maintained an insurance risk-estimation software with my team.
- Rewrote the compensation software, improving speed, maintainability and extensibility.
- Designed a new data format for contract terms, replacing CSV with JSON. Wrote a migration tool to transform the legacy files into the new format.
- Developed from scratch a new software that generates different scenarios of human errors and estimates their impact, catering for various parameters such as profession, region and type of insurance.

**Software engineer at Fermat, Montbonnot, France**

June – Aug 2011

- Worked on a software that computes a safety-net threshold for bank loans.
- Updated the calculation and the database schema according to a new regulation.

**Research assistant at Verimag Lab, Grenoble, France**

Oct 2009 – Dec 2010

- Designed and implemented a method for comparing consumption models of wireless sensor networks.
- Studied the datasheet of the embedded radio device CC1100 to confirm the performance and capabilities of my implementation.

**CS tutor at Joseph Fourier University, Grenoble, France**

2008 – 2010

- Led 150 hours of tutorials and practical labs of 1st and 2nd-year university students: C programming, algorithms, regular expressions, automata.

**Research intern at University of Toronto, Canada**

Summer 2008

- Contributed to a software model-checker in collaboration with the formal methods research team.
- Conducted experiments to compare different approaches in terms of speed, memory and precision.

## Education

**Various online courses, including:**

2014

Passed: Game theory, R language, Machine learning

Audited: Data Mining with Weka

Ongoing: Practical Machine Learning, Data Analysis and Statistical Inference

**M.Sc. on Computer Science, minor on Artificial Intelligence**

June 2009

Joseph Fourier University, Grenoble. With high honours (80+%).

Relevant coursework: Machine learning, Knowledge representation and inference, Semantic web.

**Magistère on Computer Science**

June 2009

Joseph Fourier University, Grenoble. With high honours (80+%).

Magistère is an excellence course offered to best students with emphasis on research.

## Hobbies

Badminton, via ferrata, ski, juggling, cycling, guitar.