

# Laurie Lugrin

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## Skills

### Software development

C++, Python, shell scripting, C, Java, SQL  
Algorithms & data structures, Linux, VM  
Source control, unit testing, agile

### Data analysis

Machine learning techniques  
Python libs for data: Numpy, Pandas, scikit-learn, bs4  
Weka, MongoDB, IPython notebooks

## Experience

### R&D engineer at idio, London, UK

Jan 215 – today

### Risk 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, Data Analysis and Statistical Inference  
Audited: Data Mining with Weka, Data Wrangling with MongoDB  
Ongoing: Practical Machine Learning, Natural Language Processing

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

June 2009

Joseph Fourier University, Grenoble, France. With high honours (80+%).  
Relevant coursework: Machine learning, Knowledge representation and inference, Semantic web.

### Magistère on Computer Science

June 2009

Joseph Fourier University, Grenoble, France. 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.