Fabrice Lacout

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Github : https://github.com/flacout
Website : www.fabrice-lacout.com
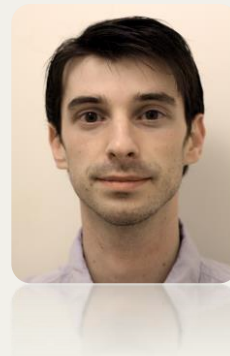
COMPUTER SCIENCE STUDENT

EDUCATION

Jan2017-May2017
San Diego, USA

COMPUTER SCIENCE CLASSES – *Mesa College.*
CISC190-Java Programming. (4 units).
CISC192-C/C++ Programming (4 units).

Avr2016-Oct2016
Online course

PYTHON FOR EVERYBODY, A 5-COURSE SPECIALIZATION – *By University of Michigan on Coursera (2-4h/week)*
Introduction to Python programming language. Python data structures. Using Python to access web data. Using databases with Python. Retrieving, processing, and visualizing data with Python.

2017
Online course

APPLIED DATA SCIENCE WITH PYTHON *- By University of Michigan on Coursera.*
Introduction to Data Science in Python.

2002-2006
Toulouse, FRANCE

BACHELOR OF SCIENCE *- University Paul Sabatier.*
Subjects studied : Molecular biology, Biochemistry, Microbiology, Cell biology, Genetics.

PROFESSIONAL EXPERIENCE

Oct 2013-Now
San Diego, USA

RESEARCH ASSOCIATE *- Invivogen*
- KO/Kin cell lines development (with CRISPR/Cas9 technology).
- Reporter cell lines design (for assays in the innate immunity field).
- Antibody neutralizing cell lines development.
- Antibodies cloning and ELISA development. Isotype class switching.
- Genotyping of blood samples, associate with a study on pancreatic cancer.
- Setting up structure of a small molecular biology lab.
- Protein purification.
- KIN/KO and Antibody plasmid design.

Feb 2007-Sep 2013
Toulouse, FRANCE

RESEARCH ASSISTANT *- Cayla Invivogen*
- Sequence research of immunity involved genes, such as immunoglobulins or TLRs.
- Plasmid design and cloning: Gene expression plasmids, siRNA Knock-down plasmid, promoter bearing plasmid, antibody cloning plasmid...
- Random Mutagenesis of reporting gene, by degenerative PCR.
- Homologous recombination on *Escherichia coli* for gene knock out or gene input.
- KO Cell line design.
- Antibody developing from hybridomas.
-Study of the Dystrophin gene production on a non-CpG plasmid.

SKILLS

PROGRAMMING LANGUAGES

Python
Java
C/C++
HTML/CSS/Javascript (basics)
SQL (basics)

TECHNOLOGIES

Linux/Bash command line.
Backend web development with Django webframework
Sqlite database
Git
Bioinformatics tools

LANGUAGES

English : fluent.
French : fluent.
Spanish : beginner.

PERSONAL PROJECTS

WEBSITE

Some of the applications I made are available for testing on my website at www.fabrice-lacout.com. The website itself is powered by python, django and sqlite.
I provide an example account with some content ready to explore the functionalities of the website, login "Bill" password "B1llURock".

ALIGNMENT APP

DNA-Protein sequence alignment.

INTERESTS

READINGS

The Linux Command Line *by William E.Shotts.*
Operating System Concepts *by Abraham Silberschatz.*
Clean Code by Robert C.Martin.

HOBBIES

Travel, fly fishing, popular science.

SPORT

Backpacking, Badminton, Surfing.

REFERENCES

Jesus Romo
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Project Leader at Cayla-InvivoGen

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Project Leader at CNRS / INRA

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