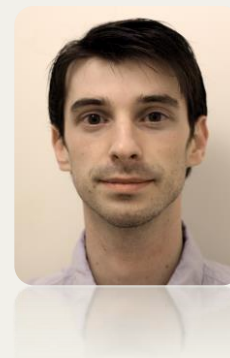


## Fabrice Lacout

6182 Agee St #198  
San Diego, CA 92122  
858-342-3109  
fabricelacout@gmail.com

Website : <http://fabricelacout.pythonanywhere.com>

Github : <https://github.com/flacout>



# COMPUTER/DATA SCIENCE STUDENT

## EDUCATION

Sep2016-now  
San Diego, USA

### COMPUTER SCIENCE CLASSES – Mesa College and Online courses.

CISC190-Object Oriented Programming in Java. (4 units).

CISC192-C/C++ Programming (4 units).

CISC-187-Data Structure in C++ (4 units).

WEBD-153-Relational Databases (3 units).

Algorithmic Toolbox – By university of California San Diego on Coursera.

Python For Everybody, a 5 course specialization – By university of Michigan on Coursera.

### DATA SCIENCE CLASSES – Online courses.

Applied Data Science With Python, a 5 course specialization – By university of Michigan on Coursera.

Machine Learning – By Stanford University on Coursera.

Probability An Statistics – By Stanford University.

Bayesian Statistics: From Concept To Data Analysis – By Stanford University on Coursera.

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.
- 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  
SQL

### TECHNOLOGIES

Linux/Bash command line  
Git  
Backend web development : Django web framework  
Frontend : Bootstrap, jQuery  
Database : MySQL, Sqlite  
Data Science : Python scientific libraries (numpy, pandas, matplotlib, scikit-learn, NLTK, networkX, Jupyter-Notebook)  
Bioinformatics tools (alignment tools, genome, proteome databases)

### LANGUAGES

English : fluent.  
French : fluent.  
Spanish : intermediate.

## PERSONAL PROJECTS

### WEBSITE

Some of my projects are available on my web application. The website itself is powered by python, django and sqlite.  
There is a testing account to play with the different functionalities, the login is "bill" and the password is "bill".

### ALIGNMENT APP

DNA-Protein sequence alignment.

## INTERESTS

### READINGS

The Linux Command Line *by William E.Shotts.*  
Clean Code *by Robert C.Martin.*  
Python for Data Analysis *by Wes McKinney.*  
Introduction to Machine Learning with Python *by C.Muller and Sarah Guido*

### HOBBIES

Travel, fly fishing, popular science, Kaggle competition.

### SPORT

Backpacking, Badminton, Surfing.

## REFERENCES

### Jesus Romo

Lab Manager at InvivoGen

[jromo@invivogen.com](mailto:jromo@invivogen.com)

619-316-4910

### Sebastien Desfarges

Project Leader at Cayla-InvivoGen

[desfarges@invivogen.fr](mailto:desfarges@invivogen.fr)

+33 7 81 17 17 43

### Dominique TREMOUSAYGUE

Project Leader at CNRS / INRA

[dominique.tremousaygue@toulouse.inra.fr](mailto:dominique.tremousaygue@toulouse.inra.fr)

+33 5 61 28 50 49