

# Clémence Réda

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## Education and qualifications

**Faculty of Mathematics, Informatics and Mechanics (University of Warsaw)** **Poland**  
*Internship* 2017 – 2018

Ten-month-long internship in research, included in the curriculum of ENS Paris-Saclay (former Ecole Normale Supérieure\* de Cachan).

**ENS Paris-Saclay (former Ecole Normale Supérieure\* de Cachan)** **France**  
*Masters* 2016 – 2017

First year of Masters diploma in Computer Science, majoring in Bioinformatics, Randomized Algorithms, Convex Optimization, Computer Vision, Machine Learning, Networks, Biology.

**Ecole Normale Supérieure de Cachan and Université Paris Diderot** **France**  
*Bachelor's degree* 2015 – 2016

Bachelor's degree in Computer Science, majoring in Algorithmics, Formal Languages, Programming, Logics, Architecture and Systems, Computability, Complexity, Databases, Lambda-Calculus, Discrete Mathematics.

**Lycée Louis-le-Grand, Paris** **France**  
*Classe préparatoire aux grandes écoles\*\** 2013 – 2015

Majoring in Mathematics, Computer Science and Physics.

**Lycée Albert Einstein, Bagnols-sur-Cèze** **France**  
*Baccalauréat S-Mathématiques\*\*\** 2013

Majoring in Mathematics.

\* An *Ecole Normale Supérieure* is a school especially aimed at training future teachers and researchers.

\* A *classe préparatoire* is a prep course to train undergraduate students for enrollment in highly-selective French colleges. It is considered equivalent to the first two years of a Bachelor's degree.

\*\* The *baccalauréat* is the French equivalent of a final highschool-leaving/A-level examination.

## Conferences

**BIT'18 and Workshop 6 of ECCB'18**  
(talk) June & September 2018  
C. Réda & B. Wilczyński. **Automated Inference of Gene Regulatory Networks Using Explicit Regulatory Modules.**

## Internships and projects

**Regulomics Team, Dr. B. Wilczyński** **Warsaw, Poland**  
*Internship in Bioinformatics, 10 months* 2018

Theoretical work to include explicit specific biological connections in gene regulatory networks, and study their influence on inference and simulation of such biological models.

**Genomics and Regulatory Systems Unit, Dr. N. Luscombe and Dr. G. Ilesley** **Okinawa, Japan**  
*Internship in Bioinformatics, 5 months* Early 2017

Implementation in R of an application for single-cell RNA-sequencing data analysis, design and implementation of a novel algorithm for cell clustering.

### Group project in C++

*Design and implementation of a novel recommender system.*

*Late 2016*

### CBiB team, supervised by Dr. M. Nikolski and M. Raffinot

**Bordeaux, France**

*Internship in Bioinformatics, 2 months*

*Summer 2016*

Compared analysis of taxonomic trees: improvement of the analysis of metagenomic data in medical studies: *TaxoTree*, *TaxoCluster*, *TaxoClassifier* softwares in Python.

### Group class project in Scala

*Implementation of a Tower Defense game.*

*2016*

### Class project in OCaml

*Implementation of a parser-lexer with yacc.*

*2016*

### Programming class project in OCaml

*Implementation of a simplified-C compiler.*

*Late 2015*

### With the help of the INSERM of Montpellier, France

**Paris, France**

*Project for the classe préparatoire*

*2013 – 2015*

Design and implementation in Python of a model of the evolution of tumoral cells in breast cancer, using circulating tumor DNA.

## Skills

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### Programming languages.....

**OCaml, Javascript/Typescript, R, Python 2:** Used for several projects, at advanced levels.

**Python 3, Scala, Matlab:** Used for several projects, more especially in bioinformatics.

**LaTeX, TeX, Beamer:** Widely-used for reports and defences.

**Other self-taught languages/frameworks::** Django, Jekyll, Shiny, HTML/CSS, PHP, SQL, Bash, C/C++, Intel x86 Assembly, Haskell.

### Databases.....

**MySQL, MongoDB, NeDB:**

### Operating Systems.....

**Windows (up to 10), Linux (Debian, CentOS, Ubuntu), Mac.:**

### Softwares.....

**Adobe Photoshop and Photoshop-like softwares, Microsoft Office, Open Office.:**

## Language proficiency

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**French:** C2

*Native speaker.*

**English:** C1

*TOEFL score (in 2016): 643/677.*

**Spanish:** B1

*Intermediate level, studied at school for seven years.*

**Arabic:** A1

*Basic level, self-taught language.*

## Miscellaneous

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*Team won 27th place out of 60 in the SWERC 2016 contest.*

**Porto (Portugal)**

*November 2016*

*Attended prep courses for the ACM contest.*

**Paris (France)**

*2015 – 2016*

*Attended Django Girls event.*

**Paris (France)**

*Django Girls events are meant to teach bases of web programming.*

*April 2016*

*Attended the MASTERCLASS of Physics at the CERN.*

**Geneva (Switzerland)**

*2013*

*Won the Issoire writing prize.*

**Nîmes (France)**

*The Issoire prize is a French regional writing contest.*

*2011*