**Nori SADOUNI**
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# Bioinformatic Engineer

## COMPUTER SCIENCE & BIOLOGY SKILLS

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| Programming | Python, Bash, HTML, CSS, PHP, SQL, Scilab, R |
| Modeling | Pymol, Copasi, NetLogo |
| Statistics | R, Excel |
| Genetics | BLAST, Bedtools, NetworkAnalyst, assemblies softwares, genome annotation, MEGA phylogeny |
| Database | SQL |
| Biology | Cells culture, Transfection, (RT,Q)PCR , ELISA, Fluorescence microscopy |
| Text | LateX, Word, Open Office |
| Version control | Github |
| Languages | English (working knowledge), Italian (limited professional skills) |

## PROFESSIONAL EXPERIENCES

**Jan – July 2017 – 6 months Internship – Mediterranean Center for Molecular Medicine C3M – Laboratory of bacteriology CHU L'Archet - Nice.** Tutors : Pr.Raymond RUIMY Head of Bacteriology service of the CHU L'archet. ruimy.r@chu-nice.fr, Dr.Olivier CROCE, Head of the bioinformatics service of the IRCAN Olivier.CROCE@unice.fr.
**Bioinformatic** internship in **microbiology.** Analysis of NGS data. Whole genome sequencing and *De Novo* approach. Analysis of **news bacteria** species. Data **trimming**, genomes **assemblies** and **annotations**, **comparative** genomes analysis, bacterial classification, phylogenetic analysis based on rRNA 16S, housekeeping genes and whole genome.
Main languages : **Python, shell**. Software : FASTQc, Trimmomatic, SPAdes, Velvet, ABYSS, MAUVE, PROKKA, MEGA phylogeny, SSPACE, Gapfiller, EggNOG, orthoMCL.

**Feb – July 2016 – 6 months Internship – Institute for Research on Cancer and Aging, NICE, IRCAN, Telomere, senescence and cancer Team.** Tutors : Pr.Eric GILSON Director of the IRCAN Eric.GILSON@unice.fr, Dr.Olivier CROCE, Head of the bioinformatics service of the IRCAN Olivier.CROCE@unice.fr.
**Bioinformatic** internship in **cancer research**. **ChIP-Seq** data analysis, *In Silico* analysis, **Database** request, **motif prediction**, data analysis, **biostatistical** tests, visualisation by **Venn diagram** and creation of a **genes network**.
Study of telomeric protein binding sites on extra-telomeric regions with active transcription markers (e.g. acetylated histones…). Network and pathways of genes regulated by this telomeric protein.
Main language : **Python**. Software : FASTQc, Bowtie, MACS2, BLAST, Bedtools, PAVIS, NetworkAnalyst.

**2017 – Master's Degree project**
- **Creation of a website** : HTML, CSS, PHP, SQL, Github, UML. Head of the class.

**2015 – Bachelor's Degree projects**
- **Modeling of the circadian clock** of a Cyanobacterium. Differential equations, modeling of the model, tests to assess the robustness of the model. Software : Copasi.
- Development of Pipeline for the research of **microRNA targets** involving the RISC complex

**2015 – Fête de la science – Nice Sophia-Antipolis.**
Scientific popularization. Workshop, demonstration, experiments on superconductors with liquid nitrogen.

## EDUCATION

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| 2016 - 2017 | Master's Degree in **Bioinformatic and Mathematic** – With honors. University of Nice Sophia-Antipolis - Polytech Sophia-Antipolis. Main subjects : programming, algorithmics, modelization, genetics, biostatistics, biotechnology, mathematics, project management. |
| 2013 - 2015 | 3 years Bachelor's Degree in **Biology and Health Science**, Main subjects : Biochemistry, Physiology, Neurobiology - With honors. University of Nice Sophia-Antipolis. |