

Arnaud KOPP

Computational Biologist

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Experiences

Mar 2014 – **Computational Scientist**, *IGMBC High Throughput Screening facilities*,
Present Strasbourg (Fr).

Main developer of statistical analysis tools (Python & R), statistical analysis of data and images. CRISPR-Cas9 screen analysis.

Python/R programming, data analysis, statistics, data visualization, machine learning, image analysis, genomics, data management

Jan-Jun 2013 **Intern**, *IGBMC Biocomputing team*, Strasbourg (Fr).

Implementation and evaluation of an integrative modeling protocol for macromolecular complex in coarse resolution.

Python/C++ programming, structural biophysics

Supervisor: Pr Annick Dejaegere, Schwarz Benjamin

July 2012 **Intern**, *IGMBC Structural biology of epigenetic targets team*, Strasbourg (Fr).

Molecular modeling and ligand docking on protein PRMT family.

Supervisor: Pr Jean-Marie Wurtz

Education

2011-2013 **Master's degree**, *University of Strasbourg*, Strasbourg (Fr), Bioinformatics, computational biology and structural biology.

director: Pr Jean Marie Wurtz

2008-2011 **Bachelor's degree**, *University of Strasbourg*, Strasbourg (Fr), Biology and computer science.

director: Pr Jean Marie Wurtz

Technical Experience

Languages Python(Numpy, Scipy, Pandas, Matplotlib), R(ggplot2, dplyr, data.table, Bioconductor), C, C++, Julia, Java

Science Computational biology, Bio-statistics, Next-Generation sequencing, Genomics, Image analysis, Algorithmic, Data Science, Machine Learning

Technologies SQL, NoSQL, Bash Scripting, Git, Linux environment, L^AT_EX