Mikael Trellet

phD student in Bioinformatics engineering

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27 years old – driver licence

Work experience

Sept. 2011 – Sept. 2012 **Research/Educational assistant**, *Computational and Structural Biology group*, Utrecht university - NETHERLANDS.
Under Pr. Alexandre Bonvin supervision
○ Research project for protein-peptide docking with HADDOCK software
○ European grid-computing administration in the WeNMR project
○ New clustering method for protein-protein complexes assessment

June 2011 – Aug. 2011 **Developer**, Google Summer of Code 2011.
Project under Biopython initiative. Interface analysis module leading to new features in the biopython module for protein-protein interfaces analysis.
http://biopython.org/wiki/GSoC2011_mtrellet

Aug. 2011 – Dec. 2011 **Developer**, *AROBAS unit, IBISC/CNRS*, Evry university - FRANCE.
Under Pr. Fariza Tahi supervision Development of TFold for the pseudoknot detection in RNA (5600 lines ; JAVA) and web-portal creation to port the software.
http://tfold.ibisc.univ-evry.fr/TFold/

Academic

Education

2009 – 2011 **Master's degree**, *Evry university - FRANCE.*
Biology and Informatics engineering

2006 – 2009 **Bachelor's degree**, *Evry university - FRANCE.*
Biology, specializing in bioinformatics

2007 – 2010 **Baccalauréat**, *Mennecy Highschool - FRANCE.*
Science, specializing in Physics/Chemistry

Research

Oct. 2012 – Today **PhD student**, *VENISE group, LIMSI/CNRS*, Paris-Sud university - FRANCE.
Visualization and analyses of molecular simulation in virtual environments.
○ Visualization of molecular structures with stereoimages based on depthmaps/textures smartphones and tablets
○ Content-based navigation of molecules in virtual environments
○ High-level representation of structural biology for Visual Analytics

Jan. 2011 – July 2011 **Master student**, *Computational and Structural Biology group*, Utrecht university - NETHERLANDS.
Under Pr. Alexandre Bonvin supervision
Docking of protein-peptide complexes using HADDOCK approach + Development of post-analysis module for HADDOCK web server (1500 lines ; Python, Bash and R)

June 2010 – Aug. 2010 **Master student**, *AROBAS unit, IBISC/CNRS*, Evry university - FRANCE.
Under Pr. Fariza Tahi supervision
Improvement of TFold for the prediction of RNA pseudoknots

June 2009 – Aug. 2009	**Master student**, *Structural Bioinformatics research group*, Institut Pasteur, Paris - FRANCE. Under Pr. Michael Nilges supervision Homology modelling of pilin, structural subunit of N. Meningitidis and N. Gonorrhoeae pili

Computer skills

Bioinfo tools	PyMol, VMD, Biopython, GROMACS
Game Engine	Unity3D, Blender
Langages	C/C++/C#, Python, Bash, Javascript, Java, HTML, PHP, SQL, SPARQL, RDF(S), OWL
Database	MySQL, Oracle
OS	MacOSX 10.5-10.10, Linux (Ubuntu,Debian)
Administration	Nagios, Virtuoso, UMD (from EGI)
Network	Websocket, Protocole IP/UDP
Softwares	Microsoft office, Open Office, Adobe Suite (Photoshop, Illustrator, Dreamweaver)

Languages

Français	**Native**
Anglais	**Fluent**
Allemand	**School level**

Other

Tutoring	Math, Biology, Physics and Chemistry for hischool students (4 years)
Sport	Badminton (FFBA and FFSU for 10 years) – France Championship in 2009 with the Evry university team as captain / Jogging / Tennis / Squash
Scouts	Animator for 5 years and Director for 3 years
Humanitarian	2-years project to build 3 classrooms in Madagaskira - summer 2007