

Maxime Woringer

Internships

- February – June 2014 **Tjian Lab, Department of Molecular and Cellular Biology, University of California (Berkeley, USA)**, *Four month internship supervised by Lana Bosanac*, .
- Research topic: Study of the role of the oncogene *c-Myc* on chromatin remodelling
 - Use of a combination of 3D superresolution microscopy, genome editing in mammalian cells, genomic data and modelling to understand the role of *c-Myc* in the complex, highly organized nuclear geometry.
- February 2014 **Functional Imaging of Transcription (FIT), Institut de Biologie de l'ENS (Paris, France)**, *Two week internship - Pr. Xavier Darzacq's lab, internship supervised by Xavier Darzacq*, .
- Design of a package to perform statistical analysis of 3D spatial point pattern data, with a special emphasis on superresolution PALM/STORM datasets. Work in progress (as of May 2014).
- August 2013 **Biotechnology Center (BIOTEC) of the Technische Universität (Dresden, Germany)**, *One week internship – Pr. Jörg Mansfeld's team*, .
- Discussions on the *CellTracking* software. Release of a new version of the program a year after the first major release.
- Summer 2013 **Functional Imaging of Transcription (FIT), Institut de Biologie de l'ENS (Paris, France)**, *Nine week internship - Pr. Xavier Darzacq's lab, internship supervised by Vincent Récamier, Ignacio Izeddin and Xavier Darzacq*, .
- Research topic: Spatial correlation of chromatin and transcription machinery using single molecule microscopy.
 - Internship report (in French) : <http://www.eleves.ens.fr/home/woringer/DarzacqLab/>
- November 2012 **Laboratoire de cristallographie et RMN biologiques, UMR 8015 CNRS-Faculté de Pharmacie Paris Descartes (Paris, France)**, *Two week internship - Pr. Nicolas Leulliot's team, work supervised by Stéphane Réty and Julien Robert-Paganin*, .
- Internship topic : Étude structurale et fonctionnelle de l'hélicase Prp43 impliquée dans la biogenèse du ribosome. (Poster, in French: [link](#))
- Summer 2012 **Wellcome Trust and Cancer Research UK - The Gurdon Institute (Cambridge, UK)**, *Eight week internship - Pr. Jonathon Pines's lab, supervised by Jörg Mansfeld*, .
- Research topic: Quantitative analysis of the Spindle Assembly Checkpoint.
 - Design *CellTracking*, a software implementing a partially automated approach to perform cell tracking (<http://www.eleves.ens.fr/home/woringer/CellTracking>. Ongoing development.)
 - Poster: Towards an automated measurement of proteolysis in vivo. ([link](#))

Teaching

- 2014 **École normale supérieure (Paris)**, *Student seminar: "Groupe de travail Maths-Bio" (link)*, .
- 2 hr introduction on fractals in biology
 - 2 hr introduction to spatial point patterns

Education

- 2013-present **École normale supérieure (Paris)**, *Master 1 in the Biology department (master Écologie-Biodiversité-Évolution, UPMC) - equivalent to the first year of a master degree*, .
- Training in cellular biology, biophysics, neuroscience, ecology
 - Additional classes in mathematics/statistics and computational biology.

- 2012-2013 **École normale supérieure (Paris)**, *Licence 3 in the Biology department - equivalent to the last year of a bachelor degree*, .
- Pluridisciplinary training in cellular and molecular biology, neuroscience, ecology
 - Additional lectures in algorithmics, modelling, mathematics and environment.
- 2010-2012 **Lycée Joffre (Montpellier) / UPMC (Paris)**, *Preparation for the competitive entrance examinations to the French "Grandes Écoles" (CPGE) and additional classes in physics at UPMC Univ.*, .
- Second year
 - Student project: Implementation of a physical-based model to forecast floods in the area of the Gardons d'Anduze located in South of France. Work supervised by Pierre-Alain Ayrat (Mines Alès) and Valérie Borrell-Estupina (Université Montpellier 2).
 - Université Pierre et Marie Curie : Exam in quantum physics and special relativity passed in January - 6 ECTS
 - First year
 - Student project in biological modelling: Statistical study of the motion of the ant *Crematogaster scutellaris* thanks to the programming of an automated tracking program.
 - "Silver" distinction at the National Chemistry Olympiads preparing for the International Chemistry Olympiads.
- 2009-2010 **Université Pierre et Marie Curie & Sciences-Po (Paris)**, *Double diploma in Sciences, social sciences and Politics - First Year*, .
- 2009 **French "Baccalauréat général scientifique"**, *First class honours*, .
- English-language practiced in the European section of the school
 - Major in Mathematics

Languages

French	Mother tongue	
English	Good writing and speaking skills	<i>Numerous journeys in English speaking countries - IELTS exam (February 2012), average : 7.5/9</i>
Spanish	Basic communication skills	<i>Studied at school for seven years - A trip in Valencia (2005)</i>
Japanese	Beginner	<i>Studied a year at Sciences-Po and a year at ENS.</i>

Various Skills

Programming	Python, R, Scilab, HTML/CSS, \LaTeX	<i>Regular use. e.g : Spatial statistics (2014), FFT (2013), Cell tracking (2012), processing of geographical data and maps, ants tracking (with OpenCV, 2011). Basic knowledge of C</i>
Wet lab	Superresolution microscopy, adaptive optics, cloning, cell culture, ...	<i>Regular practice</i>

Miscellaneous

- 2012-present **Student association Écocampus ENS**, *Association trying to raise environmental awareness in the ENS. Implicated in many of the fields developed in the association (Sea Week, Website, Institutional projects, etc.)*(<http://ecocampus.ens.fr>), .
- 2013-present **REFEDD (Réseau Français des Étudiants pour le Développement Durable) – French network of students involved in sustainable development**, *Member of the management board as an Écocampus representative*, (<http://refedd.org/>), .
- Hobbies outdoor sports (including rockclimbing, hiking, biking), free/open source software