

Loïc Girois
5 avenue Rhin et Danube
38100 Grenoble
Loic.girois96@gmail.com
+336.35.48.00.56
LinkedIn driving licence

PhD student at ILL in structural biology with Keele University

History:

I'm 24 years old and I've always been passionate about sciences more especially by biology and chemistry. At the university, I realised a pure biology background will not accords with my envy to discover and work on the molecular and nanometric scale. Multidisciplinary projects are really the most interesting things in my opinion. Consequently, I've picked specialties with the objective to learn the chemistry and physics domains connected with biology.

Educational background:

- 2018/2019 : 2nd year of master's degree nanobiophysics track at TU Dresden (ERASMUS) (mention bien)
 - Learning of methods for **biophysics at molecular scale, nanobiotechnologies, structural biology, mathematics, chemistry**
- 2017/2018 : 1st year of nanobiosciences master's degree at university Grenoble Alpes (UGA)
 - Transdisciplinary learning of nanosciences through physics, **chemistry** and **biology** with manipulation of **nanoparticles** and their **characterisation**, manipulation of **polymers**, acquire a good level in **maths** and **physics**.
- 2016/2017 : self-training to the competition for French veterinary schools (133rd/400)
 - The competition is based on a **chemistry** and maths-physics exams with a bachelor difficulty
- 2014/2017 : bachelor in biotechnologies for health at UGA (mention assez bien)
 - Formation very multidisciplinary oriented toward **pharmacy** by producing ways for (bio)molecules of medical interest by **synthetic biology** or **organic chemistry** for example. Moreover, a good formation in **studying** purifying and **analysing molecules** (protein **crystallography**, chromatographies).
- 2014 : scientific baccalaureate specialty Ecology Agronomy Territory (mention assez bien) at ENILV of La Roche-sur-Foron (74)

Languages spoken:

- French mother tongue
- English level superior to B2
- German A2
- Understand Spanish

Professional experiences:

- November 2nd 2020 3 years: PhD student at ILL (Grenoble) with Keele university (UK)
 - **Structural biology** organised around transmembranar protein complex that will be studied through **SAXS, SANS, cryo EM**. Implying to manage **production** and **purification** of **membranar proteins** in **bacteria, deuteration**, protein **crystallography**

- November 4th 2019 1 year: lab technician at LMGP (Grenoble) in partnership with Eveon (Montbonnot)
 - **Design experiments and investigations** of a pump functioning through different parameters for **fluidic devices** applied to medical **therapeutic solution** in particular **human insulin aggregation**
- March 18th 2019 6 months: structural biology research internship at MPL (Vienna, Austria)
 - **Characterization** of some **human Z disk** proteins complex using **high-throughput** methods at small scale like **crystallography, pulldown assays, SLS, expression and purification** of proteins in ***E. coli* system**, mutants design, **small scale expression and purification, cloning** via Gibson Assembly and restriction enzymes, **crosslinking**
- April 23rd 2018 2 months: structural biology research internship at IBS (Grenoble)
 - **X-Ray crystallography and activity assays** on the E9 polymerase from vaccinia virus, **production in insect cells and purification of protein, assay optimisation, inhibition characterisation, hanging drop** method for crystallography, **X-Ray diffraction**
- June the 12th 2017 5 weeks: biology research internship at Liphy (UGA)
 - **Molecular biology** internship aiming to **build a plasmid** electronically on **CLC software** by **PCR** amplification of 3 fragments then assembly it by **Gibson**. The aim of this plasmid was to study **stochastic gene expression** in ***E.coli***.
- between 2015 and 2018 2 months each summer: operator in gear cutting factories of Arve valley
- Took part in implementation of a Grenoble team for 2017 iGEM competition (worldwide synthetic biology competition organised by the MIT).
- Few hours of academic support and tutorials for classmates

Hobbies:

- Archery since 2008 :
 - vice-champion of upper Savoy in 2014
 - national university championships in 2015, 5th by team in 2016, 2017
- Ski alpin : Recreational (until the golden star)
- Sciences (particularly biology, chemistry, physics and psychology)
- Zetetic
- Animals