

## Secondment in Lyon

For my secondment, I stayed at the Laboratoire Ampere of the Ecole Centrale de Lyon for several weeks in March and April 2018.

In the first week, the whole lab team left for a retreat to the French Alps. We spent the days talking about science and our future papers, playing science games and eating extraordinary French food. We went skiing together, and as my personal highlight we had a French wine and cheese tasting. It was a really great way to get to know everyone in the lab and rethink about my own science questions and link them to a PhD student in Lyon, who is also working on Aerobiology. I took part in an outreach activity called "Project Greenland" at the International School in Lyon and went to a Conference in Grenoble (Virtual Alpine Observatory Symposium), where I presented a poster on my work on the Sonnblick Observatory in the Austrian Alps. I further met with an atmospheric scientist of the University of Grenoble to discuss my atmospheric chemistry data.

When I returned to Lyon, I started to extract the samples I brought to work on, with a method that was developed in Lyon. I quantified the DNA in all the extracts I brought, and then adapted the amplification protocol according to my sample characteristics and checked the PCR products on gels for 400 amplicons. I then proceeded to do an amplicon library preparation for 400 samples to run them on an Illumina MiSeq and did qPCR for 16S and 18S operons for all my samples.

I had a great time discussing my bioinformatics and statistics workflows and data approaches. We had regular lab meetings, to listen to or practice talks. Every Friday we collectively cleaned the lab space. I also contributed my air samplers, so a master student could use them in Lyon to collect air samples for antibiotic resistance screening.

I further received intensive training in paper writing which resulted in a publication submission soon after I returned.

Sequencing was ready shortly after I returned to Innsbruck, and I currently work on analysing the data.

I had an exceptionally good time in Lyon. The whole lab team was extremely supportive and I could learn a lot. The way science is done in Lyon was a joy for me and I am looking forward to come back soon.



