

My life as an academic analytical scientist in crystallography

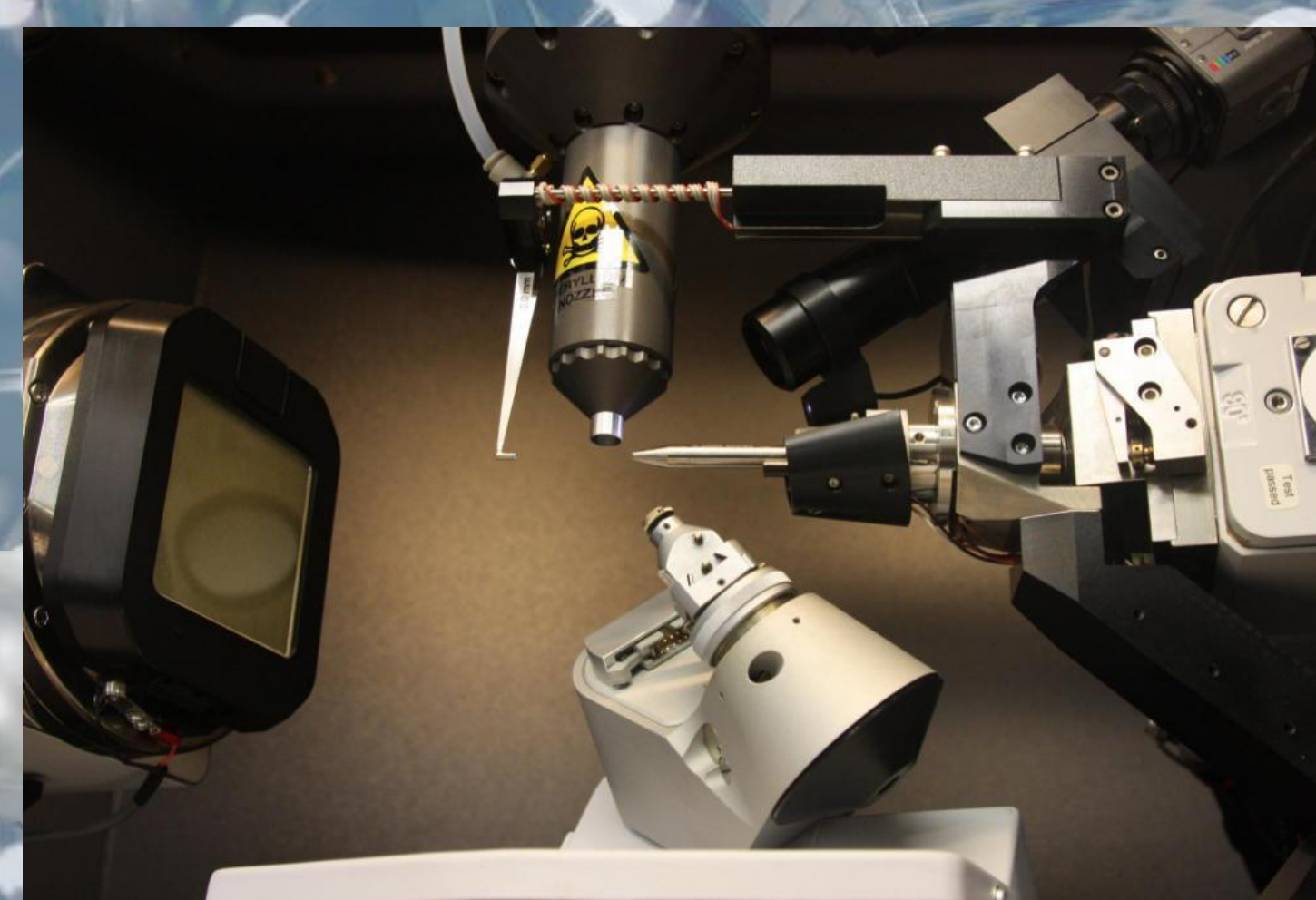
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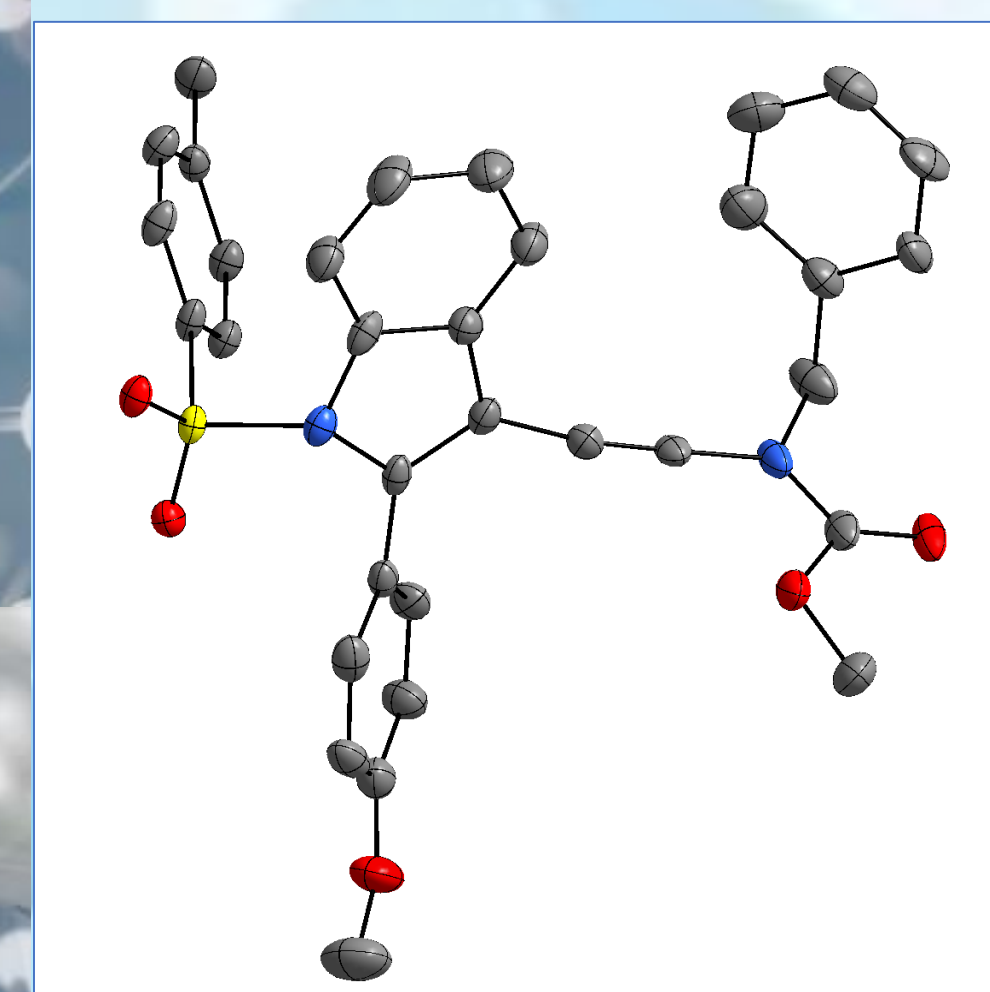
My name is Jérémy and I'm a crystallographer. I work for a french research lab and I love my job! I enjoy working with academic researchers and would like to present you the different aspects of my daily life. Here goes!

PROFESSIONNAL ENVIRONMENT

- A chemistry research lab comprising nearly 200 members
- A team of three crystallographers dedicated to Single Crystal X-Ray Diffraction (SC-XRD)
- Two diffractometers
- over 180 crystal structures solved each year (among about 275 received samples)



Diffractometer



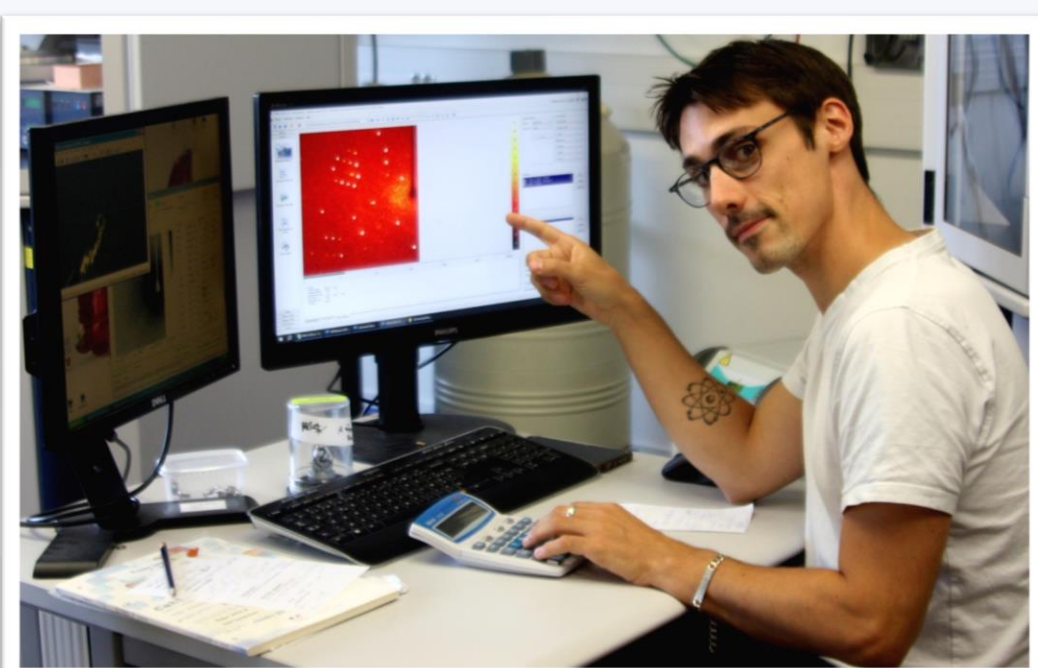
X-ray crystal structure

MY MANY FACETS



I act as a counsellor regarding crystal quality and potential analyses.

Advisor



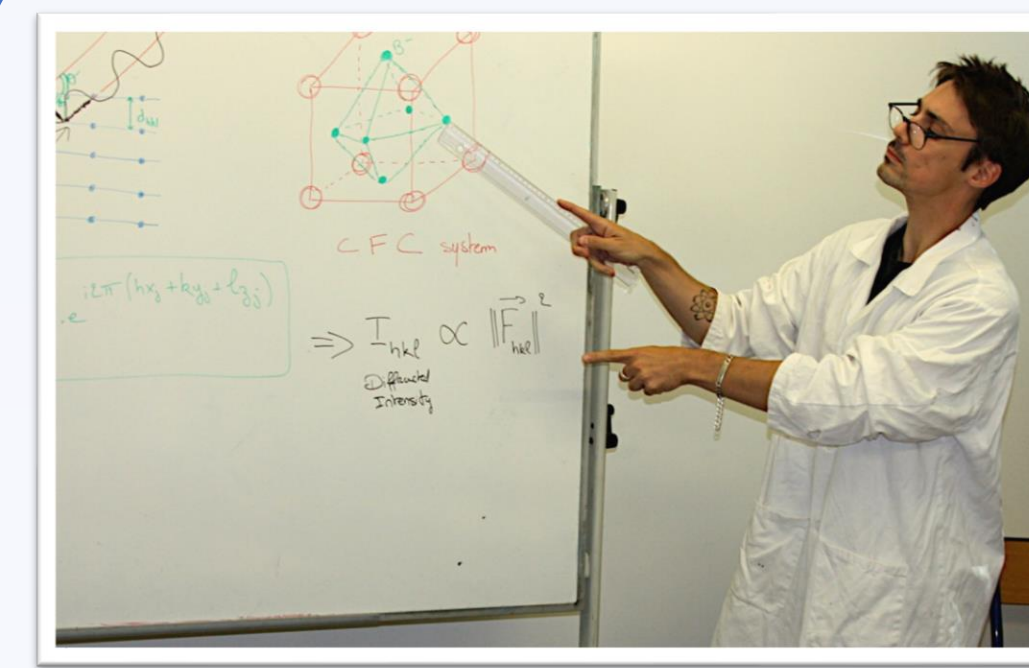
I adjust experimental parameters, acquire and process data.

Technician



I solve and refine crystal structures then format the results.

Artist



I train users in XRD theory, use of the diffractometer and crystal structure determination.

Teacher



I maintain and repair equipment.

Repairman



I write and proofread crystallographic sections of research articles.

Writer



I keep discovering new fields of expertise and learning new skills from fellow scientists.

Student



I promote popular science and spread knowledge of my domain towards the general audience.

Spokesman

HOW TO JOIN PROFESSIONNAL ACADEMIC STAFF IN FRANCE ?

Recruitment examination sessions offering positions as technical staff for candidates with various study levels happen yearly for universities as well as national research institutes (CNRS, INRAE, INSERM...).

Requirement : at least Master's degree.

IN WHICH TECHNIQUES ?

Single Crystal XRD, Powder XRD, Grazing incidence XRD, Pair distribution function, Neutron diffraction, Electron diffraction / microscopy, Computing...