



**AARON MAILMAN**

From Finland to France



Project: **Molecular Materials and Magnetism**

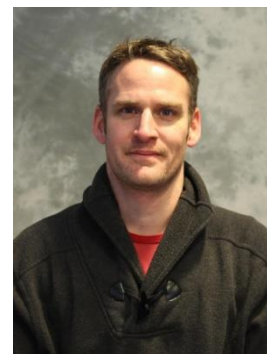
Research topic: **Chemistry**

Finnish Institution: **University of Jyväskylä**

French Institution: **Centre de recherche Paul Pascal (Bordeaux)**

Dates of mobility: **13/10/2022 to 22/10/2022**

Program: **Maupertuis Programme**



## PRESENTATION

[Aaron Mailman](#) obtained his Honours in Chemistry from [Bishop's University](#) (Sherbrooke, Quebec) where he received the Chemical Industry Prize in Chemistry for first-class degree. He obtained his PhD in synthetic main-group radicals (and fluorine) chemistry from the [University of New Brunswick](#) under the supervision of [Prof. J. Passmore](#) (in 2011). During his doctorate studies in Prof. R.T. Oakley's group at the [University of Waterloo](#) he prepared and characterized sulfur-nitrogen radicals for their use in metal-like molecular materials. In late 2015, he joined the [Main Group Chemistry](#) research group at [Jyväskylä University](#) as a [Marie-Sklłodowska-Curie Actions](#) independent researcher where he has established an independent area of research on molecular magnetic and conductive materials based on sulfur(selenium)-nitrogen radicals.

## ACTIVITIES IN FRANCE

The face-to-face meeting between Aaron Mailman and [Rodolphe Clérac](#) facilitated the discussion of the magnetic results, obtained at [CRPP](#), and enable the direction of their common research and the discussion of drafted manuscripts. They had two meetings during the research visit that identified the future direction of their reciprocal collaborations as they relate to the previously published work in Science (from CRPP) and their current interest in molecular bistable systems based on neutral and ionic radical systems. Aaron Mailman attended a conference and discussed with some of the participants and interacted with some former collaborators. He also met one-in-one with most of the current members of the [M3 research team](#) at CRPP. This led to several stimulating discussions and to a new collaboration between [Dr. Andrej Jancarik](#) at CRPP and [CNRS](#) collaborators at the [Systems Analysis and Architecture Laboratory](#) in Toulouse. Aaron Mailman was also invited to the [Institute for Condensed Matter Chemistry of Bordeaux](#) by Dr. [Elizabeth Hillard](#) to discuss the synthesis and preparation of some magnetochiral complexes with her post-doctoral fellow. This was a reciprocal exchange of ideas and introduced him to some new materials aspects and potential future collaboration with a productive research group at ICMCB.