



# Catherine McKENZIE

### How would you summarize your thesis results in 3 sentences?

My PhD thesis was highly interdisciplinary in terms of components and experimental approach. I employed molecular biology, chemogenetics, electrophysiology and imaging throughout my thesis. I focus and result was on building biological methods to specifically address how tangible elements of the mammalian brain (ie synaptic communication) translate to cognitive processes and behavioral output.

#### What are you doing now?

I am in my second year as a post-doctoral fellow at IINS, where I focus on employing 3D super-resolution microscopy, optogenetics, and electrophysiology to understand the role of adhesion proteins in real-time by optical recruitment and reassembly of these proteins at synapses.

## What was the impact of the MolTag program on your further career?

I gained a lot of support from the faculty throughout my PhD research as well as how to proceed into a post-doctoral fellow.

#### Did you keep connections with some former colleagues?

Yes! and it is so nice to share what the next steps after finishing PhD are like and what are the similarities and difference are for each of us.

#### What did you particularly like about the MolTag program?

The interdisciplinary approach was the most impactful on my PhD research. I was exposed, through MolTag, to experimental approaches and expertise that was not available at my host institution. This exposure created creative avenues in which to think about next steps in my PhD work.

#### What is your recommendation for current MolT PhD students<sup>2</sup>

MolTag gives you the incredibly unique opportunity to refine and extend your scientific network, don't let that pass!



Supervisor: Harald Janovjak, IST Austria

**Thesis title:** Design and characterization of methods and biological components to realize synthetic neurotransmission.

Position after PhD: Postdoctoral fellow in the group of Prof. Olivier Thoumine; Interdisciplinary Institute for Neuroscience (IINS), Bordeaux, France

#### MolTag alumni page:

Catherine McKenzie (univie.ac.at)

Social network: Catherine McKenzie | LinkedIn

