



## Mathilda Jouvin

PhD student

**Project: Gas transfer of O<sub>2</sub> and CO<sub>2</sub> in biological media**

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### Background

Aerobic cultures are difficult to scale-up and control because of the poor solubility of oxygen in culture media. This PhD aims to better understand these oxygen limitations, including the impact of CO<sub>2</sub> and solutes in the media.

### Currently working on

- ✓ Measuring solubilities of O<sub>2</sub> and CO<sub>2</sub> in aqueous solutions
- ✓ Next objective: measuring diffusion coefficient with fluorescent particles
- ✓ My thesis: Determine volumetric mass transfer with optical tools in culture media

### Contact me

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