

Corrie James

3rd Year PhD Student

Seeking a postdoctoral position in numerical analysis, statistical learning, scientific computing, and data-aware modelling

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Education

- 2023 – **UVSQ, Université de Paris-Saclay, Inria of Paris, LJLL SU (COMMEDIA)**, *PhD in Applied Mathematics*
Title: *The Interaction Between Data and Modelling for Biomedical Applications*
Supervisors: Muriel Boulakia (UVSQ, Université de Paris-Saclay), Damiano Lombardi (Inria of Paris, LJLL SU, COMMEDIA)
Topic: The impact of population data on inverse problems and data assimilation
Provisional Defense Date: October or November of 2026
- 2021–2023 **Master's**, *Sorbonne Université*, Paris, France, *Mathematical Modelling*
Laureate of the PGSM scholarship from the Fondation Sciences Mathématiques de Paris in M2
- 2018–2021 **Licence**, *Sorbonne Université*, Paris, France, *Mathematics and Applications*

Publication in International Journals

Numerical Approximation of the Unique Continuation Problem Enriched by a Database for the Stokes Equations, *co-authored with Muriel Boulakia and Damiano Lombardi*, 2025, ESAIM: M2AN, doi: 10.1051/m2an/2025024

International Scientific Talks

- 2025 **Math to Product (M2P)**, **Valencia, Spain**, Valencia, Spain
- 2024 **Computational and Mathematical Biomedical Engineering (CMBE2024)**, Arlington VA, USA

Professional Experience

- 2023 **Master's Internship**, *Inria of Paris (COMMEDIA)*, Paris, France
Solving Unique Continuation Problems for Biomedical Applications, Supervised by Muriel Boulakia and Damiano Lombardi, 5 months
- Summer 2022 **Internship**, *Laboratoire de biologie computationnelle et quantitative*, Paris, France
Modelling and Numerical Simulations of Adipocyte Cells. Supervised by Chloé Audebert, assistant professor at Sorbonne Université, 2 months.

Teaching Experience

- 2024–2025 **UVSQ**, *64 hours*, Optimization tutorials and labs (3rd year), Numerical Methods labs (2nd year)
- 2023–2024 **UVSQ**, *64 hours*, Numerical Methods labs (2nd year), Real Analysis tutorials (1st year), tutoring in math (1st year)

Other Activities

2025 **CEA/EDF/Inria Summer School**, Solving partial differential equations in fields physics faster with physics-based machine learning

2024 **Sacl-AI 4 Science Workshop**

Languages and Computing Skills

Language English (maternal language), French (fluent), Spanish (advanced)

Computing Python, Jax, Tensorflow, Pytorch, Scikit Learn, FreeFem++, Paraview, Monolix, R