





Anthony Bosco





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Postdoctoral Researcher
Cerfacs

Employment History

- 2025 – 2026  **Postdoctoral Researcher** Energy and Security team, Cerfacs, Toulouse
- 2024 – 2025  **Contractual Researcher** Laboratory of Applied Mathematics University of Pau & Inria Bordeaux
- 2021 – 2024  **PhD Candidate** Laboratory of Applied Mathematics University of Pau & Inria Bordeaux
- 2018 – 2019  **Teaching Assistant.** Faculty of Applied Sciences, University of Liège.

Education





- 2021 – 2024  **Ph.D. in Applied Mathematics**, Laboratory of applied mathematics, University of Pau & Ca-gire team, Inria Bordeaux, France.
Thesis title: *Development of robust high order methods for the simulation of compressible turbulent flows*. Supervisor: Vincent Perrier
Keywords: Discontinuous Galerkin methods – Numerical Analysis – Compressible flows – RANS equations – High Performance Computing
- 2017 – 2019  **Master of Science in Engineering Physics, Major in fluid dynamics.** (*magna cum laude*) – University of Liège, Belgium.
Thesis title: *Bayesian inference for the identification of model parameters in atmospheric entry problems*.
- 2014 – 2017  **Bachelor of Science in Engineering** (*cum laude*) – University of Liège, Belgium.
Major in physics, minor in mechanics.
- 2008 – 2014  **Certificat d’enseignement secondaire supérieur** – Athénée Royal d’Esneux, Belgium.

Research Publications

Journal Articles

- 1 **Anthony Bosco** and Vincent Perrier. “Discontinuous Galerkin methods for axisymmetric flows”. In: *Computers & Fluids* 270 (2024), pp. 106–139.

Conference Proceedings

- 1 **Anthony Bosco**, Vincent Perrier, and Jonathan Jung. “Variational Formulation of Wall Boundary Conditions of RANS Models in a Discontinuous Galerkin Framework”. In: *CFC 2023 - 22nd Computational Fluids Conference*. IACM. Cannes, France, Apr. 2023.  URL: <https://hal.science/hal-04095353>.
- 2 **Anthony Bosco** and Vincent Perrier. “Discontinuous Galerkin method for the simulation of axisymmetric compressible flows”. In: *HONOM 2022 - European Workshop on High order nonlinear numerical methods for evolutionary PDEs: Theory and Applications*. Braga, Portugal, Apr. 2022.  URL: <https://inria.hal.science/hal-03893160>.
- 3 **Anthony Bosco** and Vincent Perrier. “Méthodes numérique d’ordre élevé pour la turbulence.” In: *Journée du LRC Anabase avec MARGAUx*. Talence, France, Dec. 2022.  URL: <https://inria.hal.science/hal-03893271>.
- 4 **Anthony Bosco**, Vincent Perrier, and Jonathan Jung. “Discontinuous Galerkin method for the computation of axisymmetric flows”. In: *ECCOMAS 2022 - 8th European Congress on Computational Methods in Applied Sciences and Engineering*. Oslo, Norway, June 2022.  URL: <https://inria.hal.science/hal-03893243>.

Technical Reports

- 1 **Anthony Bosco** and Vincent Perrier. *Discontinuous Galerkin methods for axisymmetric flows: extended version*. Tech. rep. RR-9524. INRIA, Oct. 2023, p. 49. [URL: https://inria.hal.science/hal-04236220](https://inria.hal.science/hal-04236220).

Master Thesis

- 1 **Anthony Bosco**. *Bayesian inference for the identification of model parameters in atmospheric entry problems*. MSc thesis. Liège, Belgium, 2019. [URL: https://matheo.uliege.be/handle/2268.2/7860](https://matheo.uliege.be/handle/2268.2/7860).

Teaching

- 2022– 2023 **Calcul Scientifique** – University of Pau.
Analyse numérique pour les problèmes vectoriels – University of Pau.
- 2021– 2022 **Calcul Scientifique** – University of Pau.
Statistiques Descriptives – University of Pau.
- 2020 – 2021 **Statistiques Descriptives** – University of Pau.
- 2018 – 2019 **Applied Mathematics** – University of Liège.

Skills

- Languages **French** (native), **English** (C1)
- Programming Language **C/C++**, **Julia**, **Python**, **MATLAB**, **ĒTĒX**
- Softwares **MATLAB/Octave**, **OpenFOAM**, **Siemens NX**, **COMSOL**, **MS Office**
- Operating systems **Linux**, **macOS**, **Windows**
- Misc. **Git**, **MPI**, **OpenMP**, **GDB**, **Valgrind**

References

Vincent Perrier

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