

CV Adrien Lefauve

Employment

- 2025 – date **Assistant Professor and NERC Independent Research Fellow**
Grantham Institute and Civil and Environmental Engineering, Imperial College London
- 2022 – date **Senior Research Fellow**, *Magdalene College, Cambridge*
- 2022 – 2025 **Senior Research Fellow**, *DAMTP, University of Cambridge*
- 2019 – 2022 **College Lecturer**, *Magdalene College, Cambridge*
- 2018 – 2022 **Research Fellow**, *DAMTP, University of Cambridge*

Education

- 2014 – 2018 **PhD in Fluid Mechanics**
*Department of Applied Mathematics and Theoretical Physics (DAMTP),
University of Cambridge*
PhD thesis: “Waves and turbulence in sustained stratified shear flows” under Paul Linden
- 2013 – 2014 **MSc in Fluid Mechanics**
École Polytechnique, France
MSc thesis: “A global map of tidal dissipation above abyssal hills” under Caroline Muller and Jean-Marc Chomaz
- 2008 – 2013 **MSc (Diplôme d’Ingénieur) in Mechanical Engineering**
Université de Technologie de Compiègne (UTC), France

Competitive exchange programmes and internships:

- 2012 *University of Illinois, Urbana-Champaign (UIUC), USA, 1 year*
MSc thesis: “Theory and simulation of confined active suspensions” under David Saintillan
- 2011 *German Aerospace Centre (DLR), Stuttgart, Germany, 6 months*
- 2010 *Technical University of Vienna (TU Wien), Austria, 5 months*

Peer recognition

- 2024 **Invited Review Article** in *Comptes Rendus Physique*, French Académie des Sciences
- 2023 – 26 **Invited Staff Member**, GFD Summer Program, Woods Hole Oceanographic Institution, USA
- 2021 **Journal Front Cover**, *Soft Matter*, reserved for the best papers.
- 2020 **Silver Medal for Mathematics**, UK Parliamentary and Scientific Committee
- 2019 **Dissertation Prize and Plenary Talk at the UK Fluids Conference**, UK Fluids Network
For the “best fluid mechanics themed PhD thesis submitted to a UK university in 2018”
- 2018 **Young Scientist Award**, European Fluid Mechanics Conference
For the best oral presentation in biennial EU conference (~850 participants)
- 2018, 22 **Two “Focus on Fluids” articles**, *Journal of Fluid Mechanics*
My papers were selected (out of ~100 per month) for a dedicated highlight review article
- 2017 **Osborne Reynolds Prize**, EU Research Community on Flow, Turbulence and Combustion
For the best presentation in UK-wide early-career fluids competition (~80 entries)

Funding

- 2022 **NERC Independent Research Fellowship**, £702,000 (13 awards in the UK that year)
Ranked 1st in Panel B with top score (10/10) for “Research Leadership Potential”
- 2021 **Royal Society Research Grant**, £20,000 “seed corn” to buy specialist equipment.
- 2019 **Leverhulme Trust Early Career Fellowship**, ~£160,000
Highly competitive 3-year fellowship (100 awards / year in the UK across all subjects)
- 2017 **EPSRC Doctoral Prize Fellowship**, ~£40,000 1-year funding (only 1 award in DAMTP / year)
- 2014 **Cambridge Trust Home and European Union PhD Scholarship**, ~£21,000
- 2013 **École Polytechnique Full MSc scholarship** for academic excellence (1 award / cohort), €4400.

Research supervision

1 PhD student (current)

2026 Asad Naqvi

3 PhD students (visiting projects)

2025 Emma Bouckley • from *U. Cambridge*. with S. Lewin, 2 months (WHOI GFD project)

2023 Hao Fu • from *Stanford U.* with C. Cenedese and G. K. Vallis, 2 months (WHOI GFD project)

2016 Ling Qu • from *China Sea Institute of Oceanology* with P. F. Linden, 12 months

5 Masters students (MSc theses)

2025 Jake Hewison • from *U. Cambridge* with S. Dalziel, 4 months

2024 Valentin Samson • from *École Polytechnique* with A. Atoufi, 4 months

2023 Metten de Lange • from *TU Eindhoven* with M. Duran Matute, 10 months

2021 Aly Kombargi • from *École Polytechnique* with M. A. Etzold, 4 months

2019 Yves-Marie Ducimetière • from *EPFL* with F. Gallaire & C. P. Caulfield, 6 months

8 Undergraduate students (summer internships)

2023 Marvil Cheung • from *U. Cambridge* with M. Couchman & X. Jiang, 2 months

2023 Jade Buzinski • from *Arizona State U.* with A. Scotti & J. Yalim, 4 months

2022 Arianna Cox, Stasiu Wolanski, Jason Tang • from *U. Cambridge*, 2 months each

2020 Joshua Cudby, Zhiyuan Wei, Yansheng Zhang • from *U. Cambridge*, 2 months each

Invited seminars excluding at U. Cambridge and Imperial College (most recent)

2026 Woods Hole Oceanographic Institution, Applied Ocean Physics and Engineering (USA)

2025 Woods Hole Oceanographic Institution, Geophysical Fluid Dynamics Seminar (USA)
École Normal Supérieure de Lyon (France)

2024 Woods Hole Oceanographic Institution, Geophysical Fluid Dynamics Seminar (USA)
National Oceanography Centre, Southampton

2023 University of Twente, Physics of Fluids Group (the Netherlands)
TU Eindhoven, Fluids and Flow Group (the Netherlands)

Woods Hole Oceanographic Institution, Geophysical Fluid Dynamics Seminar (USA)

2019 University of British Columbia, Department of Civil Engineering (Canada)
Coanda Research & Development Corporation, Vancouver (Canada)
École Polytechnique Fédérale de Lausanne, LFMI (Switzerland)

Contributed papers in conferences (most recent)

2026 Physics of Estuaries and Coastal Seas, Maine (USA)

Gordon Research Conference on Ocean Mixing, Massachusetts (USA)

European Geosciences Union General (EGU) Assembly, Vienna (Austria)

Ocean Sciences Meeting, Glasgow (UK)

2025 Gordon Research Conference on Coastal Ocean Dynamics, New Hampshire (USA)

European Geosciences Union (EGU) General Assembly, Vienna (Austria)

2024 Physics of Estuaries and Coastal Seas, Bordeaux (France)

European Fluid Dynamics Conference, Aachen (Germany)

Gordon Research Conference on Ocean Mixing, Massachusetts (USA)

EUROMECH Colloquium on Microplastics Dispersion Pathways, Lerici (Italy)

European Geosciences Union (EGU) General Assembly, Vienna (Austria)

- Ocean Sciences Meeting, New Orleans (USA)
- 2022 European Fluid Mechanics Conference, Athens (Greece)
- European Congress of the IAHR, Athens (Greece)
- International Symposium on Stratified Flows, Cambridge (UK)
- UK Fluids Conference, Southampton & Virtual (UK)
- International Congress of Theoretical and Applied Mechanics, Milan & Virtual (Italy)

Teaching and examination

- 2025-26 Tutorial in MSc CleanTech Innovation, *Imperial College London*
- 2025 External examiner of PhD thesis, *École Normale Supérieure de Lyon (France)*
- 2024 – 2025 Director of Studies in Earth Sciences, *Magdalene College, U. Cambridge*
- 2022 – 2025 Part III (Master’s) Mathematics essay setting and assessment, *U. Cambridge*
- 2022 – 2024 PhD admissions interview, progress and assessment, *U. Cambridge*
- 2021 Associate Fellow of the UK Higher Education Academy (teaching qualification)
- 2021 – date Undergraduate admission interviewer, *Magdalene College, U. Cambridge*
- 2017, 19 Undergraduate entrance examiner for STEP (Sixth Term Examination Paper)
- 2015 – 2025 Undergraduate supervisor (small-group teaching) in Mathematical Tripos, *U. Cambridge*
- Year 1: Vectors and Matrices (2022 – 25)
- Year 2: Fluid Dynamics (2020 – 25)
- Year 3: Mathematical Biology (2015 – 17)

Outreach and public engagement

- 2023 Consultant for the Geography Curriculum Review (GSCE, iGCSE and AS/A Level Worldwide products), for Cambridge Zero & Cambridge University Press and Assessment
- 2022 – date Guest Lecturer in Mathematics, international summer schools for students aged 13-17
- 2021 APS magazine article (*Physics* **14**, 29), journalist-led dissemination of research paper
- 2020 STEM for Britain poster competition in the House of Commons (UK Parliament) with MPs
- 2019 European Study Group with Industry, week-long mathematics team project
- 2018 APS Gallery of Fluid Motion, artistic video competition (youtu.be/3IpA1RiEpzI)
- 2015, 17, 24 Cambridge Science Festival, Laboratory demonstrations to the general public

Institutional responsibilities

- 2024 Co-convenor of the Symposium on Stratified Turbulence, *1st European Fluid Dynamics Conference in Aachen, Germany*
- 2024 Fellowship Committee, Nevile Junior Research Fellowship, *Magdalene College, Cambridge*
- 2022 – 24 Executive Committee, *EPSRC National Fellowships in Fluid Dynamics, UK*
- 2021 – date Co-leader, Special Interest Group on “Ocean Turbulence”, UK Fluids Network
- 2021 – 24 Committee & Co-chair, *JFM Fluids Webinar* (streamed worldwide) and *DAMTP Fluid Mechanics Seminar* (in-person, weekly during term)
- 2015 – date Reviewer for *Journal of Fluid Mechanics*, *Nature Communications*, *Physical Review Letters*, *Physical Review Fluids*.

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