

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

- 2026 **Editor Highlight, Journal of Geophysical Research: Oceans**
Paper selected for a feature article on Eos.org (<2% of published articles receive a Highlight)
- 2024 **Invited Review Article, Comptes Rendus Physique, French Académie des Sciences**
- 2023 – date **Invited Staff Member, GFD Summer Program, Woods Hole Oceanographic Institution**
- 2021 **Journal Front Cover, Soft Matter, recognising the best papers.**
- 2020 **Silver Medal for Mathematics, UK Parliamentary and Scientific Committee**
National research award at the “STEM for Britain” competition in UK Parliament.
- 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**
Best oral presentation in biennial EU conference (~850 participants)
- 2018, 22 **Two “Focus on Fluids” articles, Journal of Fluid Mechanics**
Papers selected by editor for dedicated feature (~1% of published articles receive a Focus)
- 2017 **Osborne Reynolds Prize, EU Research Community on Flow, Turbulence and Combustion**
Best presentation in UK-wide early-career fluids competition (~80 entries)

Funding

- 2022 **NERC Independent Research Fellowship, £702,000 (13 awarded nationally)**
Ranked 1st nationally in Physical Science Panel with top score (10/10) for “Research Leadership”
- 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 (only 1 award in DAMTP this year)
- 2014 **Cambridge Trust Home and European PhD Scholarship**, ~£21,000
- 2013 **École Polytechnique Full MSc scholarship for academic excellence** (1 award / cohort), €4400.

Research supervision

1 PhD student

- 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)

- 2026 Yifan Zhang, 4 months
- 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 (most recent), excluding at U. Cambridge and Imperial College

- 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 (EGU) General 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

- 2027 – 27 Lead for core module “The Science of Climate Change”, MSc in Climate Change Management & Finance, *Imperial College London*
- 2025 – 26 Tutorials, MSc CleanTech Innovation, *Imperial College London*
- 2025 External examiner of PhD thesis, *École Normale Supérieure de Lyon (France)*
- 2024 – 25 Director of Studies in Earth Sciences, *Magdalene College, U. Cambridge*
- 2022 – 25 Part III (Master’s) Mathematics essay setting and assessment, *U. Cambridge*
- 2022 – 24 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 – 25 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*

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*, *Journal of Physical Oceanography*,
 Nature Communications, *Physical Review Letters*, *Physical Review Fluids*.

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