

CV Adrien Lefauve

Employment

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

Education

2014 – 2018	PhD in Fluid Mechanics <i>Department of Applied Mathematics and Theoretical Physics (DAMTP), University of Cambridge</i> PhD thesis: “Waves and turbulence in sustained stratified shear flows” under Paul Linden
2013 – 2014	MSc in Fluid Mechanics (ranked 1 st in the cohort of 20) <i>École Polytechnique, France</i> 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 (top 1% of the cohort of ~400) <i>Université de Technologie de Compiègne (UTC), France</i>

Competitive exchange programmes and internships:

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

Peer recognition

2024	Invited Review Article in <i>Comptes Rendus Physique</i> , French Académie des Sciences
2023 – 25	Invited Staff Member , GFD Summer Program, Woods Hole Oceanographic Institution, USA
2021	Journal Front Cover , <i>Soft Matter</i> , 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 , <i>Journal of Fluid Mechanics</i> 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 1 st 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

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)

- 2025 Woods Hole Oceanographic Institution, GFD Seminar (USA)
École Normal Supérieure de Lyon (France)
2024 Woods Hole Oceanographic Institution, GFD 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, GFD 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)

- 2025 Gordon Research Conference on Coastal Ocean Dynamics, New Hampshire (USA)
European Geosciences Union 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, South Hadley (USA)
EUROMECH Colloquium on Microplastics Dispersion Pathways, Lerici (Italy)
European Geosciences Union 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	External examiner of PhD thesis, <i>École Normale Supérieure de Lyon (France)</i>
2024 – 2025	Director of Studies in Earth Sciences, <i>Magdalene College, U. Cambridge</i>
2022 – 2025	Part III (Master's) Mathematics essay setting and assessment, <i>U. Cambridge</i>
2022 – 2024	PhD admissions interview, progress and assessment, <i>U. Cambridge</i>
2021	Associate Fellow of the UK Higher Education Academy (teaching qualification)
2021 – date	Undergraduate admission interviewer, <i>Magdalene College, U. Cambridge</i>
2017, 19	Undergraduate entrance examiner for STEP (Sixth Term Examination Paper)
2015 – 2025	Undergraduate supervisor (small-group teaching) in Mathematical Tripos, <i>U. Cambridge</i> 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 (<i>Physics</i> 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/3lpA1RiEpzI)
2015, 17, 24	Cambridge Science Festival, Laboratory demonstrations to the general public

Institutional responsibilities

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

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