

CV Adrien Lefauve

Employment

- Since 2025 **Assistant Professor and NERC Independent Research Fellow**
Grantham Institute and Civil and Environmental Engineering, Imperial College London
- Since 2022 **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** (ranked 1st in the cohort of 20)
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** (top 1% of the cohort of ~400)
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 – 25 **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

2 PhD students (visiting projects)

- 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, 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 (last five years)

- 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 (last three years)

- 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

- 2024 – date Acting Director of Studies in Earth Sciences, *Magdalene College, Cambridge*
2022 – 2025 Part III (Masters) Mathematics essay setter and assessor, *U. Cambridge*
2022 – 2024 PhD admissions interviewer, progress and assessment, *U. Cambridge*
2021 Associate Fellow of the UK Higher Education Academy (teaching qualification)

2021 – 2022	Undergraduate admission interviewer, <i>Magdalene College, Cambridge</i>
2017, 19	Undergraduate entrance examiner for STEP (Sixth Term Examination Paper)
2015 – date	Undergraduate supervisor (small-group teaching) in Mathematical Tripos, <i>U. Cambridge</i> Year 1: Vectors and Matrices (2022 – date), Year 2: Fluid Dynamics (2020 – date), Year 3: Mathematical Biology (2015 – 17)

Outreach

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/3IpA1RiEpzI)
2015, 17, 24	Cambridge Science Festival, Laboratory demonstrations to the general public

Institutional responsibilities

2024	Co-convenor of the Minisymposium 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 member & Co-chair, <i>JFM Fluids Webinar</i> (streamed worldwide) and <i>DAMTP Fluid Mechanics Seminar</i> (in-person, weekly during term)
2015 – date	Regular peer-reviewer for the <i>Journal of Fluid Mechanics</i>

Updated April 2025