## **Dr Adrien Lefauve**

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My primary research interest is the fluid dynamics of stratified flows. I enjoy revealing the beautiful structures in these flows using state-of-the-art experimental techniques and strive to understand them using elegant mathematical analysis.

## **EMPLOYMENT**

Sep 2018 – Sep 3	2019Post-doctoral Research Associate (EPSRC Doctoral Prize Fellow, 1 year funding)Department of Applied Mathematics and Theoretical Physics, University of Cambridge
EDUCATIO	N
2014 – 2018	University of Cambridge, Churchill Colllege (UK)Degree:PhD, Applied Mathematics and Theoretical Physics • Supervisor: Prof. P. F. LindenThesis title:Waves and turbulence in sustained stratified shear flows
2013 - 2014	<b>École Polytechnique (France)</b> <i>Degree:</i> MSc, Fluid Mechanics (international program) • <i>Grades (A-F):</i> 11 A, 1 B (1 <sup>st</sup> of ~20 cohort)
2008 - 2013	Université de Technologie de Compiègne (France)Degree:MSc, Mechanical Engineering•Grades: 37 A, 3 B, 1 C, 1 D
PUBLICATI	ONS
	ucture and origin of confined Holmboe waves ave, J. L. Partridge, Q. Zhou, S. B. Dalziel, C. P. Caulfield, P. F. Linden <i>Journal of Fluid Mechanics</i> 848, 508-544
	-dimensional map of tidal dissipation over abyssal hills uve, C. Muller & A. Melet,Journal of Geophysical Research: Oceans 120
	y aligned states and hydrodynamic traffic jams in confined suspensions of active asymmetric particles ave, D. Saintillan Physical Review E: Rapid Communications 89
	<b>limensional, time-resolved velocity and density measurements of the stratified shear flow in an inclined duct</b> <u>ave, J. L. Partridge, S. B. Dalziel &amp; P. F. Linden</u> VIIIth International Symposium on Stratified Flows, San Diego
AWARDS &	HONOURS
2018	Young Scientist Award, European Fluid Mechanics Conference (€500) One of the two awards for best oral presentations in biennal Europe-wide conference (~850 participants).
2018	<b>"Focus on Fluids" Article in the Journal of Fluid Mechanics</b> My paper was selected (out of ~80/month) for a dedicated review explaining its impact to the broad community.
2017	<b>EPSRC Doctoral Prize (~£45,000)</b> Competitive one-year postdoctoral funding to maximise impact of promising PhD thesis (1/year in the department).
2017	<b>Osborne Reynolds Award (£500)</b> First oral presentation prize in annual UK-wide competition for young researchers in fluid mechanics (~80 entries).
2016	Smith-Rayleigh-Knight Prize (£100) Cambridge Mathematics prize based on an essay submitted during the fourth term of PhD research.
2016,18	Cambridge Philosophical Society travel grants (£600 in total)
2015,16,18	Churchill College travel grants (£950 in total)
2014	Cambridge Trust Scholarship (~£20,500) Contributing to 3 years of maintenance stipend for my PhD.
2013	Ecole Polytechnique tuition fee award (€4,400) Single scholarship per cohort per year covering the MSc tuition fees, based on merit and academic excellence.