## Étienne Fodor

Physics of Active Matter
Associate Professor, ATTRACT Fellow
etienne.fodor@uni.lu | efodorphysics.github.io

Dept of Physics and Materials Science (DPhyMS)

Univ of Luxembourg

30, Avenue des Hauts-Fourneaux

L-4362 Esch-sur-Alzette, Luxembourg

## Scientific positions and education

2017 20 Oppenheimer Research Fellow, DAMTP, Univ of Cambridge 2016-17 Postdoctoral Research Associate, DAMTP, Univ of Cambridge (Supervisor: ME Cates) 2013 16 PhD in Physics, Univ Paris Diderot (Supervisors: P Visco, F van Wijland), summa cum laude 2012 13 Masters (2 <sup>nd</sup> year) in Physics, École Normale Supérieure (ENS), Paris 2011-12 Agrégation de Physique, Training program for teaching in Physics Bachelors, ENS Cachan 2009 11 Bachelors + Masters (1 <sup>st</sup> year) in Physics, ENS Lyon 2020 Research, supervision, and teaching 2021 Masters course in Physics, DPhyMS, Univ of Luxembourg   14 weeks/year 2022 Group supervision, DPhyMS, Univ of Luxembourg   14 weeks/year 2022 Group supervision, DPhyMS, Univ of Luxembourg   14 weeks/year 2020 Group supervision, DPhyMS, Univ of Luxembourg   14 weeks/year 2021 EN Dattani (23-25), F Serafin (24-25), A Soriani (26-27), F Thewes (26-27) 2024 Wasters (20-23), BN Radhakrishnan (21-25), L Casagrande (23-26), N Setzkorn (24-27) 2024 Masters (24-27), M Antonioli (24-27) 2034 Masters course in Physics, Dept of Physics, Univ of Luxembourg   6 hours, 1 day 2016-20 Student co-supervision, DAMTP, Univ of Cambridge (Supervisor: ME Cates) 2 PhDs   OL Borthne (17-20), T Elech (18-21) 3 Masters   D Martin (16-17), T Elech (18-21) 3 Masters   D Martin (16-17), T Elech (17-18), JW Knight (19-20, best thesis prize) 2015 16 Research visit, YITP, Kyoto Univ (Host: H Hayakawa)   2 months/year 2013 Research internship, Univ Paris Diderot (Supervisors: P Visco, F van Wijland)   16 weeks 2010 11 Bachelors tutorials in Physics, Lycée Fénelon, Paris   30 weeks 2011 12 Bachelors tutorials in Physics, Lycée Pinelon, Paris   30 weeks 2010 12 Bachelors tutorials in Physics, Lycée Pinelon, Paris   30 weeks 2020 13 Bachelors tutorials in Physics, Lycée   Martinière Monplaisir, Lyon   30 weeks 2020 25 Bachelors tutorials in Physics, Lycée   PhD Romande   PhD 2020 25 Depthelmer Research Fellowship, St Catharine's College, Cambridge 2017 PhD prize, Institut des Systèmes Complexes, Paris 2018 Best talk prize, Act		
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3 Masters   L Casagrande (22–23), T Desaleux (22–23), N Setzkorn (23–24)  Masters course in Physics, Dept of Physics, Univ of Liège   10 hours, 1 week  Doctoral course in Physics, DPhyMS, Univ of Luxembourg   6 hours, 1 day  Student co-supervision, DAMTP, Univ of Cambridge (Supervisor: ME Cates) 2 PhDs   ØL Borthne (17–20), T Ekeh (18–21) 3 Masters   D Martin (16–17), T Ekeh (17–18), JW Knight (19–20, best thesis prize)  Research visit, YITP, Kyoto Univ (Host: H Hayakawa)   2 months/year  Bachelors tutorials in Physics, Univ Paris Diderot   14 weeks/year  Bachelors tutorials in Physics, Lycée Fénelon, Paris   30 weeks  Bachelors tutorials in Physics, Lycée Fénelon, Paris   30 weeks  Bachelors tutorials in Physics, Lycée la Martinière Monplaisir, Lyon   30 weeks  Bachelors tutorials in Physics, Lycée la Martinière Monplaisir, Lyon   30 weeks  Bachelors tutorials in Physics, Lycée la Martinière Monplaisir, Lyon   30 weeks  Bachelors tutorials in Physics, Lycée la Martinière Monplaisir, Lyon   30 weeks  Bachelors tutorials in Physics, Lycée la Martinière Monplaisir, Lyon   30 weeks  Bachelors tutorials in Physics, Lycée la Martinière Monplaisir, Lyon   30 weeks  Bachelors tutorials in Physics, Lycée la Martinière Monplaisir, Lyon   30 weeks  Bachelors tutorials in Physics, Lycée la Martinière Monplaisir, Lyon   30 weeks  Bachelors tutorials in Physics, Lycée la Martinière Monplaisir, Lyon   30 weeks  Bachelors tutorials in Physics, Lycée la Martinière Monplaisir, Lyon   30 weeks  Bachelors tutorials in Physics, Lycée la Martinière Monplaisir, Lyon   30 weeks  Bachelors tutorials in Physics, Lycée la Martinière Monplaisir, Lyon   30 weeks  Bachelors tutorials in Physics, Lycée Fénelon, Paris   30 weeks  Bachelors tutorials in Physics, Lycée Fénelon, Paris   30 weeks  Bachelors tutorials in Physics, Lycée Fénelon, Paris   30 weeks  Bachelors tutorials in Physics, Lycée Fénelon, Paris   30 weeks  Bachelors tutorials in Physics, Lycée Fénelon, Paris   30 weeks  Bachelors tutorials in Physics, Lycée Fénelon, Paris   30		6 PhDs   Y Zhang (20–23), BN Radhakrishnan (21–25), L Casagrande (23–26), N Setzkorn (24–27),
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<ul> <li>CORE grant, Fonds National de la Recherche (FNR), Luxembourg   830 kEUR</li> <li>Doctoral training unit, FNR (Program lead: M Esposito)   1 PhD</li> <li>ATTRACT Fellowship, FNR   1.5 MEUR</li> <li>Oppenheimer Research Fellowship, Univ of Cambridge   160 kGBP Junior Research Fellowship, St Catharine's College, Cambridge</li> <li>PhD prize, Institut des Systèmes Complexes, Paris Best talk prize, SIAM-IMA Annual Conference, Univ of Cambridge</li> <li>Best talk prize, Active Liquids, Lorentz Center, Leiden</li> </ul>	Funding,	fellowships, and awards
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2020–25 ATTRACT Fellowship, FNR   1.5 MEUR  2017–20 Oppenheimer Research Fellowship, Univ of Cambridge   160 kGBP Junior Research Fellowship, St Catharine's College, Cambridge  2017 PhD prize, Institut des Systèmes Complexes, Paris Best talk prize, SIAM-IMA Annual Conference, Univ of Cambridge  2015 Best talk prize, Active Liquids, Lorentz Center, Leiden	2024 – 27	${f CORE}$ grant, Fonds National de la Recherche (FNR), Luxembourg   830 kEUR
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Junior Research Fellowship, St Catharine's College, Cambridge  2017 PhD prize, Institut des Systèmes Complexes, Paris Best talk prize, SIAM-IMA Annual Conference, Univ of Cambridge  2015 Best talk prize, Active Liquids, Lorentz Center, Leiden	2020 – 25	ATTRACT Fellowship, FNR   1.5 MEUR
Best talk prize, SIAM-IMA Annual Conference, Univ of Cambridge  Best talk prize, Active Liquids, Lorentz Center, Leiden	2017–20	
• / / / / / / / / / / / / / / / / / / /	2017	- /
2013–16 <b>Teaching Assistantship</b> , Univ Paris Diderot + <b>PhD Scholarship</b> , ENS Cachan	2015	Best talk prize, Active Liquids, Lorentz Center, Leiden
	2013 – 16	Teaching Assistantship, Univ Paris Diderot + PhD Scholarship, ENS Cachan

Invited	conference talks
2025	Statistical Physics of Living Systems, CECAM, Lausanne
	International Discussion Meeting on Relaxations in Complex Systems, Barcelona Self-Organization Far From Equilibrium, APS March meeting, Anaheim
	Machine Learning for Enhanced Sampling of Atomistic Systems, Berkeley
2024	The Many Faces of Active Mechanics, KITP, Santa Barbara
	Nonequilibrium Statistical Physics of Complex Systems, Seoul
2023	Computational Advances in Active Matter, Lorentz Center, Leiden
	Frontiers in Nonequilibrium Physics: Active Matter, Topology and Beyond, Kyoto
	Conference on Statistical Mechanics, Sitges Physics of Dense and Active Disordered Materials, Kyoto
	Frontiers in Nonequilibrium Physics, Institute of Mathematical Sciences, Chennai
2022	Statistical Mechanical Theories of Emergence in Biological Systems, Edinburgh
	Numerical Techniques for Nonequilibrium Steady States, CECAM, Mainz
2020	Symmetry, Thermodynamics and Topology in Active Matter, KITP (online)
2018	Why Measure Entropy Production?, Princeton Univ
	Active Matter Session, Berkeley
$\mathbf{Contrib}$	outed conference talks
2025	Multiscale modeling of chemically active mixtures, CECAM, Lausanne
	StatPhys29, Out-of-equilibrium Statistical Physics, Florence
2024	From Flocking Birds to Migrating Cells: Recent Advances in Active Matter, Leiden
2024	Dissipative Processes in Molecular Systems, Padova Workshop on Stochastic Thermodynamics V (online)
	DPG Spring Meeting, Berlin
2023	StatPhys28, Soft Matter, Tokyo
	Bridge between Non-equilibrium Statistical Physics and Biology, Cambridge
	New Perspectives in Active Systems, Dresden
2021	From Soft Matter to Biophysics, Les Houches
2021	Liquid Matter Conference, Prague (online) Workshop on Stochastic Thermodynamics II (online)
2020	Motile Active Matter Conference, Bonn (online)
2019	StatPhys27, Out-of-equilibrium aspects, Buenos Aires
	International Soft Matter Conference, Edinburgh
	Statistical Physics of Complex Systems, Nordita, Stockholm
2018	Nonequilibrium Collective Dynamics, Technische Univ Berlin
	Fundamental Problems in Active Matter, Aspen Center for Physics
2017	SIAM-IMA Annual Conference, Univ of Cambridge
	Edwards Centre Mini Conference, Univ of Cambridge Open Statistical Physics, Milton Keynes
2016	StatPhys26, Biological Physics, Lyon
	Non-Gaussian Workshop, YITP, Kyoto
2015	Active Liquids, Lorentz Center, Leiden
2014	Condensed Matter in Paris, Univ Paris Descartes
	ESPCI, Journées de Physique Statistique, Paris
Invited	seminars
2026	Dept of Physics, Univ of Palermo
2025	Biophysics Seminar Series, Massachusetts Institute of Technology
	Solitons at work, online
2024	Dept of Chemistry, Univ of California, Berkeley

	LPTMC, Sorbonne Univ, Paris	
	Dept of Physics, Univ of Liège	
	Institute of Physics, Univ of Leiden	
	Niels Bohr Institute, Univ of Copenhagen	
2023	Biological, Soft and Complex Materials and Theory Seminar, Univ of Bristol EMBL Theory Seminar, Heidelberg	
2022	Biological Physics and Physical Biology, online	
	DAMTP, Soft Matter Seminar, Univ of Cambridge (online)	
2021	Mathematical Physics Seminar, Imperial College London (online)  Dept of Physics, Guangdong Technion (online)	
2021	Quantum Science and Technology, Univ of Luxembourg (online) Non-equilibrium Statistical Physics, Georg-August-Univ Göttingen (online) Centre de Physique Théorique, Aix-Marseille Univ (online)	
2020	School of Physics and Astronomy, Univ of Edinburgh (online)  Dept of Physics, Univ of Bath	
2019	ICTP, Quantitative Life Sciences Group, Trieste	
	James Franck Institute, Dept of Chemistry, Univ of Chicago	
	Physics of Living Systems, Massachusetts Institute of Technology	
	Physics and Materials Science Research Unit, Univ of Luxembourg Institute of Physics, Computational Soft Matter, Univ of Amsterdam	
2018	LiPhy Laboratory, Univ Grenoble Alpes	
2010	Charles Coulomb Laboratory, Univ de Montpellier	
	ESPCI, Gulliver Laboratory, Paris	
	St Catharine's College, Graduate Research Seminars, Cambridge	
	Research Colloquium Series, California State Univ, Fullerton	
2017	DAMTP, Soft Matter Seminar, Univ of Cambridge DAMTP, BioLunch Seminar, Univ of Cambridge	
2016	School of Mathematical Sciences, Queen Mary Univ of London	
	DAMTP, Soft Matter Seminar, Univ of Cambridge	
	MSC Laboratory Seminar, Univ Paris Diderot  Vulsava Institute for Theoretical Physics, Kysto	
2015	Yukawa Institute for Theoretical Physics, Kyoto	
2015	LiPhy Laboratory, Univ Grenoble Alpes Physics-Biology Interface Seminar, Univ Paris Sud	
	DAMTP, Soft Matter Seminar, Univ of Cambridge	
	Yukawa Institute for Theoretical Physics, Kyoto	
2014	MSC Laboratory, Physique du vivant, Univ Paris Diderot	
	MSC Laboratory, Theory Group, Univ Paris Diderot	
Organized events		
2025	Nonequilibrium Systems Under Control, Lorentz Center, Leiden   Workshop, 1 week Co-organizers: TR Gingrich (Northwestern Univ), SAM Loos (Univ of Cambridge)	
2024	<b>Energy, Information and Evolution in Biology</b> , Cargèse   Summer school, 2 weeks Co-organizers: A Manacorda, M Esposito (Univ of Luxembourg)	
	Physics Meets Mathematics, Univ of Luxembourg   Workshop, 1 day	
2018–20	Statistical Physics and Soft Matter, DAMTP, Univ of Cambridge   Weekly seminar Co-organizers: ME Cates, RL Jack (Univ of Cambridge)	
2019	Colloids as a Toolbox for Statistical Mechanics, Univ of Cambridge   Workshop, 1 day Co-organizers: ME Cates, RL Jack (Univ of Cambridge)	
2018	Nonequilibrium Biophysics, World Congress of Biomechanics, Dublin   Session, $\frac{1}{2}$ day Co-organizer: D Mizuno (Kyushu Univ)	
Outreach	activities	

Outreach lecture, Institut d'Etudes Scientifiques, Cargèse 

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2023	Inaugural lecture, Faculty of Science, Technology and Medicine, Univ of Luxembourg
2022	Student fair, DPhyMS, Univ of Luxembourg
2021	Open day, DPhyMS, Univ of Luxembourg
2021 - 24	Internship supervision, High-school students, Univ of Luxembourg   1 week/year
Review a	nd editorial service
Since 2025	Editorial board member, Journal of Statistical Mechanics
Since 2016	Reviewer for scientific journals and agencies   ca 30 reviews/year
	Journals   Commun Phys, Entropy, EPL, EPJE, J Chem Phys, J Phys A, J Stat Mech, Nat Commun, Nat Phys, New J Phys, Phys Rev (E, Lett, Res, X), PNAS, Science, Science Adv, Soft Matter
	Agencies   ANR (France), DFG (Germany), DOE (USA), FRS-FNRS (Belgium), ISF (Israel)
2025 – 26	Guest editor, Physical Review E   Special topics: "Controlling stochastic dynamics across scales'
2025 – 26	Guest editor, New Journal of Physics   Special topics: "Statistical mechanics of active matter"
PhD com	mittees
2026	DPhyMS, Univ of Luxembourg (Student: A Kabylda, Supervisor: A Tkatchenko) Univ of Barcelona (Student: Y Rouzaire, Supervisor: D Levis)
2025	DPhyMS, Univ of Luxembourg (Student: SGM Srinivas, Supervisor: M Esposito) Univ of Mons (Student: G Palumbo, Supervisor: P Damman) DPhyMS, Univ of Luxembourg (Student: M Puleva, Supervisor: A Tkatchenko) DPhyMS, Univ of Luxembourg (Student: BN Radhakrishnan, Supervisor: TL Schmidt)
2024	Univ Grenoble Alpes (Student: L Guislain, Supervisor: E Bertin) Univ Paris Cité (Student: A Dinelli, Supervisor: J Tailleur) DPhyMS, Univ of Luxembourg (Student: N Carabba, Supervisor: A del Campo) DPhyMS, Univ of Luxembourg (Student: L Dupays, Supervisor: A del Campo)
2023	Imperial College, London (Student: Z Zhang, Supervisor: G Pruessner)
2022	DPhyMS, Univ of Luxembourg (Student: D Forastiere, Supervisor: M Esposito) DPhyMS, Univ of Luxembourg (Student: E Penocchio, Supervisor: M Esposito) DPhyMS, Univ of Luxembourg (Student: V Vassilev Galindo, Supervisor: A Tkatchenko)
2021	Luxembourg Centre for Systems Biomedicine (Student: S Martina, Supervisor: A Skupin) DPhyMS, Univ of Luxembourg (Student: J Ekström, Supervisor: TL Schmidt)
Scientific	production
Main publi	cations: Phys Rev Lett [40][35][34][32][7] Phys Rev X [36][25][18][17][9] Reviews [28][24][13]

Chercheurs à l'école, Seminar in high schools, Luxembourg

Main publications: Phys Rev Lett [40][35][34][32][7], Phys Rev X [36][25][18][17][9], Reviews [28][24][13]

- [48] Contraction waves in pulsating active liquids: From pacemaker to aster dynamics T Banerjee, T Desaleux, J Ranft, and ÉF, arXiv:2509.19024
- [47] Irreversibility in scalar active turbulence: The role of topological defects BN Radhakrishnan,\* F Serafin,\* TL Schmidt, and ÉF, arXiv:2507.06073
- [46] Control of active field theories at minimal dissipation A Soriani, E Tjhung, ÉF, and T Markovich, arXiv:2504.19285
- [45] Hydrodynamics of pulsating active liquids T Banerjee, T Desaleux, J Ranft, and ÉF, arXiv:2407.19955
- [44] Entropy production rate in thermodynamically consistent flocks T Agranov, RL Jack, ME Cates, and ÉF, New J Phys 27, 104602 (2025)
- [43] Quantifying dissipation in flocking dynamics: When tracking internal states matters K Proesmans, G Falasco, A Tanaji Mohite, M Esposito, and ÉF, Phys Rev E 112, 024103 (2025)
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- \* Equal contribution of these authors to this work