

SEPTEMBER 4, 2023

ALBERTO DINELLI

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EDUCATION

Oct 2021 - Present	Ph.D. - Physique en Île de France Laboratoire Matière et Systèmes Complexes, Université Paris Cité · <i>Paris</i> Subject: Self-organization and morphogenesis of active mixtures Supervisor: Julien Tailleur
Jul 2023	<ul style="list-style-type: none"> • Visiting period at YITP, group of Prof. H. Hayakawa · <i>Kyoto, JP</i>
Oct 2022	<ul style="list-style-type: none"> • Visiting period at MIT, group of Prof. J. Tailleur · <i>Cambridge, US</i>
Sep 2019 - Jul 2021	Master in Physics of Complex Systems (International Track) Politecnico di Torino · <i>Torino</i> Université Paris-Saclay, Sorbonne Université, Université de Paris · <i>Paris</i> SISSA, ICTP · <i>Trieste</i> Italian degree mark: 110/110 cum laude French M2 mark: 18/20 Thesis: Self-organization of active mixtures. · Supervisor: Julien Tailleur.
Sep 2016 - Jul 2019	Bachelor degree in Physics Università di Pisa · <i>Pisa</i> Degree mark: 110/110 cum laude Thesis: Rayleigh Taylor instability on a thin layer of fluid accelerated by the radiation pressure. · Supervisor: Francesco Pegoraro.

TEACHING

- 2021 - 2023
- Teaching assistant, *Physics of Materials* (Bachelor, 1st year) · IUT Pajol (*Paris*)
 - Teaching assistant, *Photonics* (Bachelor, 2nd year) · IUT Pajol (*Paris*)

PUBLICATIONS

- [A. Dinelli](#), J. O'Byrne, A. Curatolo, Y. Zhao, P. Sollich, J. Tailleur, *Non-reciprocity across scales in active mixtures*, [arXiv:2203.07757](#) (currently under revision at Nat. Comm.)
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TALKS

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| Aug 2023 | · Contributed talk at STATPHYS28 , (University of Tokyo, Tokyo) |
| Aug 2023 | · Contributed talk at Frontiers in nonequilibrium physics: Active matter, topology and beyond , (YITP, Kyoto) |
| Jul 2023 | · Seminar at YITP, Advanced Statistical Dynamics Group, (YITP, Kyoto) |
| Jun 2023 | · Contributed talk at EDPIF Scientific Day , (Sorbonne University, Paris) |
| Mar 2023 | · Seminar at Institut Curie, Theory Group (Institut Curie, Paris) |
| Jan 2023 | · Flash talk at Journées de Physique Statistique 2023 (ENS, Paris) |
| Nov 2022 | · Contributed talk at Physics of Microbial Motility Workshop (ESPCI, Paris) |
| Oct 2022 | · Talk at Greater Boston Area Statistical Mechanics Meeting (UMass-Amherst, Amherst) |
| Oct 2022 | · Seminar at MIT Physics of Living Systems (MIT, Cambridge) |
| Jul 2022 | · Contributed talk at the CECAM Workshop: New Frontiers in Liquid Matter (Sorbonne Jussieu, Paris) |
| Jan 2022 | · Flash talk at Journées de Physique Statistique 2022 (ENS, Paris) |
| Nov 2021 | · Flash talk at Multiscale integration in Biological Systems (Institut Curie, Paris) |
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POSTER PRESENTATIONS

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| Aug 2023 | · <i>Non-reciprocity across scales in active mixtures</i>
at Perspectives on Non-Equilibrium Statistical Mechanics (YITP, Tokyo) |
| Jun 2023 | · <i>Non-reciprocity across scales in active mixtures</i>
at Active matter at surfaces and in complex environments (MPIPKS, Dresden) |
| May 2023 | · <i>Self-organization of bacterial mixtures interacting via quorum-sensing</i>
at Workshop on Signatures of Nonequilibrium fluctuations in life (ICTP, Trieste) |
| Dec 2022 | · <i>Self-organization of bacterial mixtures interacting via quorum-sensing</i>
at Population dynamics: from rare events to evolution (Université Grenoble Alpes, Grenoble) |
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COMPUTER SKILLS

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|--------------|---|
| Intermediate | · Julia, MATLAB, MATHEMATICA |
| Advanced | · Python, C, awk, bash, L ^A T _E X |

OTHER INFORMATION

Awards

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| 2023 | · International Mobility Fellowship BDMI |
| 2021 - 2024 | · IdEX International PhD Fellowship (Link) |
| 2020 - 2021 | · Paris-Saclay International Master's Scholarship (Link) |

Languages

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| ITALIAN | • Mother tongue |
| ENGLISH | • Advanced C2 (Cambridge Proficiency Certificate in 2015) |
| FRENCH | • Advanced |