

OCTOBER 25, 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
Oct 2023 - Nov 2023	· Visiting period at MIT, group of Prof. J. Tailleur · <i>Cambridge, US</i>
Jul 2023	· Visiting period at YITP, group of Prof. H. Hayakawa · <i>Kyoto, JP</i>
Oct 2022	· 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](#) (In press at Nature Communications)
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TALKS

- Oct 2023 · Seminar in P. Mehta and K. Korolov's groups, (Boston University, Boston)
 - Oct 2023 · Seminar in M. Hagan's group, (Brandeis University, Waltham)
 - 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 Fronteers 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](#) (Insitut Curie, Paris)
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POSTER PRESENTATIONS

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

Intermediate · Julia, MATLAB, MATHEMATICA

Advanced · Python, C, awk, bash, L^AT_EX

OTHER INFORMATION

Awards

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

Languages

- Italian* · Mothertongue
- English* · Advanced C2 (Cambridge Proficiency Certificate in 2015)
- French* · Advanced