

JULY 20, 2023

ALBERTO DINELLI

Born in Lucca (Italia), 07/10/1997

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UMR 7057 · Université de Paris
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EDUCATION

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|---------------------|---|
| Oct 2021 - Oct 2024 | Ph.D. - Physique en Île de France
Laboratoire Matière et Systèmes Complexes, Université de Paris · <i>Paris</i>

Subject: Self-organization and morphogenesis of active mixtures
Supervisor: Julien Tailleur |
| Oct 2022 | <ul style="list-style-type: none"> • Visiting period at MIT, group of Prof. Julien 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

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| 2021 - 2023 | <ul style="list-style-type: none"> • Teaching assistant, <i>Physics of Materials</i> (Bachelor, 1st year) · IUT Pajol (<i>Paris</i>) • Teaching assistant, <i>Photonics</i> (Bachelor, 2nd year) · IUT Pajol (<i>Paris</i>) |
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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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| <i>Jun 2023</i> | • Contributed talk at EDPIF Scientific Day, (Sorbonne University, Paris) |
| <i>Mar 2023</i> | • Seminar at Institut Curie, Theory Group (Institut Curie, Paris) |
| <i>Jan 2023</i> | • Flash talk at <i>Journées de Physique Statistique 2023</i> (ENS, Paris) |
| <i>Nov 2022</i> | • Contributed talk at <i>Physics of Microbial Motility Workshop</i> (ESPCI, Paris) |
| <i>Oct 2022</i> | • Talk at <i>Greater Boston Area Statistical Mechanics Meeting</i> (UMass-Amherst, Amherst) |
| <i>Oct 2022</i> | • Seminar at MIT Physics of Living Systems (MIT, Cambridge) |
| <i>Jul 2022</i> | • Contributed talk at the CECAM Workshop: <i>New Fronteers in Liquid Matter</i> (Sorbonne Jussieu, Paris) |
| <i>Jan 2022</i> | • Flash talk at <i>Journées de Physique Statistique 2022</i> (ENS, Paris) |
| <i>Nov 2021</i> | • Flash talk at <i>Multiscale integration in Biological Systems</i> (Insitut Curie, Paris) |
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POSTER PRESENTATIONS

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

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| <i>Intermediate</i> | • Julia, MATLAB, MATHEMATICA |
| <i>Advanced</i> | • Python, C, awk, bash, L ^A T _E X |
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OTHER INFORMATION

Awards

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

Achievements

- Feb 2021 • 1st position in the French ranking of the Physics of Complex Systems master
- Jun 2019 • 1st position in the admission test to Physics of Complex Systems master

Attendance to conferences

- Jun 2023 • *Active matter at surfaces and in complex environments* (MPIPKS, Dresden)
- May 2023 • *Workshop on Signatures of Nonequilibrium fluctuations in life* (ICTP, Trieste)
- Jan 2023 • *Journées de Physique Statistique 2023* (ENS, Paris)
- Dec 2022 • *Population dynamics: from rare events to evolution* (Université Grenoble Alpes, Grenoble)
- Nov 2022 • *Physics of Microbial Motility Workshop* (ESPCI, Paris)
- Oct 2022 • *Greater Boston Area Statistical Mechanics Meeting* (UMass-Amherst, Amherst)
- Aug 2022 • *Active Matter: The Next 25 Years 2022* (Lorentz Center, Leiden)
- Jul 2022 • CECAM Workshop: *New Fronteers in Liquid Matter* (Sorbonne Jussieu, Paris)
- Jun 2022 • Summer school on *Disorder in Complex Systems* (Institut Pascal, Orsay)
- Jan 2022 • *Journées de Physique Statistique 2022* (ENS, Paris)
- Nov 2021 • *Multiscale integration in Biological Systems* (Institut Curie, Paris)
- Jun 2021 • *Beg Rohu Summer School* on Statistical Physics and Emergent Phenomena in Biology
- Mar 2021 • *Spring College* on the Physics of Complex Systems (ICTP, SISSA, Trieste)
- Jan 2021 • *IRS 2021* Inhomogeneous Random Systems 2021
- Aug 2019 • *ICPS* International Conference of Physics Students (Köln)
- Nov 2018 • *GIPE* German-Italian Physics Exchange (Trieste)
- Sep 2015 • University orientation course held by Scuola Normale Superiore di Pisa ([Link](#)) (San Miniato)

Languages

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