

MARCH 19, 2023

## ALBERTO DINELLI

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## EDUCATION

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|---------------------|---|
| Oct 2021 - Oct 2024 | <b>Ph.D. - Physique en Île de France</b><br>Laboratoire Matière et Systèmes Complexes, Université de Paris · <i>Paris</i><br><b>Subject:</b> Self-organization and morphogenesis of active mixtures<br><b>Supervisor:</b> Julien Tailleur   |
| Oct 2022            | <ul style="list-style-type: none"> <li>• Visiting period at MIT · <i>Cambridge, US</i></li> </ul>   |
| Sep 2019 - Jul 2021 | <b>Master in Physics of Complex Systems (International Track)</b><br>Politecnico di Torino · <i>Torino</i><br>Université Paris-Saclay, Sorbonne Université, Université de Paris · <i>Paris</i><br>SISSA, ICTP · <i>Trieste</i><br><b>Italian degree mark:</b> 110/110 cum laude<br><b>French M2 mark:</b> 18/20<br><b>Thesis:</b> Self-organization of active mixtures. · <b>Supervisor:</b> Julien Tailleur. |
| Sep 2016 - Jul 2019 | <b>Bachelor degree in Physics</b><br>Università di Pisa · <i>Pisa</i><br><b>Degree mark:</b> 110/110 cum laude<br><b>Thesis:</b> Rayleigh Taylor instability on a thin layer of fluid accelerated by the radiation pressure. · <b>Supervisor:</b> Francesco Pegoraro.   |

## TEACHING

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

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| Dec 2022 | • Self-organization of bacterial mixtures interacting via quorum-sensing at <a href="#">Population dynamics: from rare events to evolution</a> (Université Grenoble Alpes, Grenoble) |
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## COMPUTER SKILLS

- |              |   |
|--------------|---|
| Intermediate | • Julia, MATLAB, MATHEMATICA                            |
| Advanced     | • Python, C, awk, bash, L <sup>A</sup> T <sub>E</sub> X |
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## OTHER INFORMATION

### Awards

- |             |   |
|-------------|---|
| 2023        | • International Mobility Fellowship for visiting period at MIT ( <a href="#">Link</a> ) |
| 2021 - 2024 | • IdEX International PhD Fellowship ( <a href="#">Link</a> )                            |

2020 - 2021

- Paris-Saclay International Master's Scholarship ([Link](#))

## Achievements

Feb 2021

- 1<sup>st</sup> position in the French ranking of the Physics of Complex Systems master

Jun 2019

- 1<sup>st</sup> position in the admission test to Physics of Complex Systems master

## Attendance to conferences

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 2021](#) 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