

NOVEMBER 4, 2023

ALBERTO DINELLI

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

Oct 2021 - Present

Ph.D. - Physique en Île de FranceLaboratoire Matière et Systèmes Complexes, Université Paris Cité · *Paris***Subject:** Self-organization and morphogenesis of active mixtures**Supervisor:** Julien Tailleur

Oct 2023 - Nov 2023

· Visiting period at MIT, group of Prof. J. Tailleur · *Cambridge, US*

Jul 2023

· Visiting period at YITP, group of Prof. H. Hayakawa · *Kyoto, JP*

Oct 2022

· Visiting period at MIT, group of Prof. J. Tailleur · *Cambridge, US*

Sep 2019 - Jul 2021

Master in Physics of Complex Systems (International Track)Politecnico di Torino · *Torino*Université Paris-Saclay, Sorbonne Université, Université de Paris · *Paris*SISSA, ICTP · *Trieste***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 PhysicsUniversità di Pisa · *Pisa***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 - 2024

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

PUBLICATIONS

1. Dinelli, A., O'Byrne, J., Curatolo, A., Zhao, Y., Sollich, P., Tailleur, J., "Non-reciprocity across scales in active mixtures". *Nature Communications* 14, 7035 (2023).
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TALKS

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| Oct 2023 | · Seminar in D. Nelson's group, (Harvard University, Cambridge) |
| Oct 2023 | · Seminar in P. Mehta and K. Koroloev's groups, (Boston University, Boston) |
| Oct 2023 | · Seminar in M. Hagan's group, (Brandeis University, Waltham) |
| Aug 2023 | · Contributed talk at <i>STATPHYS28</i> , (University of Tokyo, Tokyo) |
| Aug 2023 | · Contributed talk at <i>Frontiers in nonequilibrium physics: Active matter, topology and beyond</i> , (YITP, Kyoto) |
| Jul 2023 | · <i>Seminar</i> at YITP, Advanced Statistical Dynamics Group, (YITP, Kyoto) |
| Jun 2023 | · Contributed talk at <i>EDPIF Scientific Day</i> , (Sorbonne University, Paris) |
| Mar 2023 | · Seminar at Institut Curie, Theory Group (Institut Curie, Paris) |
| Jan 2023 | · Flash talk at <i>Journées de Physique Statistique 2023</i> (ENS, Paris) |
| Nov 2022 | · Contributed talk at <i>Physics of Microbial Motility Workshop</i> (ESPCI, Paris) |
| Oct 2022 | · Talk at <i>Greater Boston Area Statistical Mechanics Meeting</i> (UMass-Amherst, Amherst) |
| Oct 2022 | · Seminar at MIT Physics of Living Systems (MIT, Cambridge) |
| Jul 2022 | · Contributed talk at the CECAM Workshop: <i>New Fronteers in Liquid Matter</i> (Sorbonne Jussieu, Paris) |
| Jan 2022 | · Flash talk at <i>Journées de Physique Statistique 2022</i> (ENS, Paris) |
| Nov 2021 | · Flash talk at <i>Multiscale integration in Biological Systems</i> (Insitut Curie, Paris) |
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POSTER PRESENTATIONS

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| Aug 2023 | · <i>Perspectives on Non-Equilibrium Statistical Mechanics</i> (YITP, Tokyo) |
| Jun 2023 | · <i>Active matter at surfaces and in complex environments</i> (MPIPKS, Dresden) |
| May 2023 | · <i>Workshop on Signatures of Nonequilibrium fluctuations in life</i> (ICTP, Trieste) |
| Dec 2022 | · <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

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

Languages

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| <i>Italian</i> | · Mothertongue |
| <i>English</i> | · Advanced C2 (Cambridge Proficiency Certificate in 2015) |
| <i>French</i> | · Advanced |