

NOVEMBER 4, 2023

ALBERTO DINELLI

Born in Lucca (Italia), 07/10/1997
email alberto.dinelli@u-paris.fr
address Laboratoire Matière et Systèmes Complexes
 UMR 7057 · Université de Paris
 10 rue Alice Domon et Léonie Duquet
 75205 Paris CEDEX 13 (France)
website adinelli.github.io

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

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

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| <i>Aug 2023</i> | · <i>Perspectives on Non-Equilibrium Statistical Mechanics</i> (YITP, <i>Tokyo</i>) |
| <i>Jun 2023</i> | · <i>Active matter at surfaces and in complex environments</i> (MPIPKS, <i>Dresden</i>) |
| <i>May 2023</i> | · <i>Workshop on Signatures of Nonequilibrium fluctuations in life</i> (ICTP, <i>Trieste</i>) |
| <i>Dec 2022</i> | · <i>Population dynamics: from rare events to evolution</i> (Université Grenoble Alpes, <i>Grenoble</i>) |
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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 |