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ALBERTO DINELLI

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EDUCATION

2024-09 – Present	<p>Postdoc Département de biochimie · Université de Genève · <i>Geneva</i></p> <p>Advisor: Karsten Kruse.</p>
2021-10 – 2024-08	<p>Ph.D. - Physique en Île de France Laboratoire Matière et Systèmes Complexes, Université Paris Cité · <i>Paris</i></p> <p>Thesis: Scalar Active Matter across scales · Supervisor: Julien Tailleur.</p>
2023-10 – 2023-11	· Visiting period at MIT, group of Prof. J. Tailleur · <i>Cambridge, US</i>
2023-07	· Visiting period at YITP, group of Prof. H. Hayakawa · <i>Kyoto, JP</i>
2022-10	· Visiting period at MIT, group of Prof. J. Tailleur · <i>Cambridge, US</i>
2019-09 – 2021-07	<p>Master in Physics of Complex Systems - International track Politecnico di Torino · <i>Torino</i> — Université Paris-Saclay · <i>Paris</i></p> <p>Final mark: 110/110 cum laude French M2 mark: 18/20 Thesis: Self-organization of active mixtures · Supervisor: Julien Tailleur.</p>
2019-09 – 2020-02	· Visiting period at SISSA, ICTP · <i>Trieste</i>
2016-09 – 2019-07	<p>Bachelor degree in Physics Università di Pisa · <i>Pisa</i></p> <p>Final mark: 110/110 cum laude Thesis: Rayleigh Taylor instability on a thin layer of fluid accelerated by the radiation pressure. · Supervisor: Francesco Pegoraro.</p>

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](#), “Scalar active matter across scales”. PhD Thesis (2024).
2. [A. Dinelli](#), J. O’Byrne and J. Tailleur, “Fluctuating hydrodynamics of active particles interacting via chemotaxis and quorum sensing: static and dynamics”. *J. Phys. A* 57, 395002 (2024).
3. [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).

TALKS

- 2024-04 · Seminar in K. Kruse’s group, (Université de Genève, Geneva)
- 2024-02 · Seminar at *Spring College of Physics of Complex Systems 2024* (ICTP, Trieste)
- 2024-01 · Flash talk at *Journées de Physique Statistique 2024* (ENS, Paris)
- 2024-01 · Seminar in M. Shelley’s group, (CCB, Flatiron Institute, New York)
- 2023-10 · Seminar in D. Nelson’s group, (Harvard University, Cambridge)
- 2023-10 · Seminar in P. Mehta and K. Korolov’s groups, (Boston University, Boston)
- 2023-10 · Seminar in M. Hagan’s group, (Brandeis University, Waltham)
- 2023-08 · Contributed talk at *STATPHYS28*, (University of Tokyo, Tokyo)
- 2023-08 · Contributed talk at *Frontiers in nonequilibrium physics: Active matter, topology and beyond*, (YITP, Kyoto)
- 2023-07 · Seminar at YITP, Advanced Statistical Dynamics Group, (YITP, Kyoto)
- 2023-06 · Contributed talk at *EDPIF Scientific Day*, (Sorbonne University, Paris)
- 2023-03 · Seminar at Institut Curie, Theory Group (Institut Curie, Paris)
- 2023-01 · Flash talk at *Journées de Physique Statistique 2023* (ENS, Paris)
- 2022-11 · Contributed talk at *Physics of Microbial Motility Workshop* (ESPCI, Paris)
- 2022-10 · Talk at *Greater Boston Area Statistical Mechanics Meeting* (UMass-Amherst, Amherst)
- 2022-10 · Seminar at MIT Physics of Living Systems (MIT, Cambridge)
- 2022-06 · Contributed talk at the CECAM Workshop: *New Frontiers in Liquid Matter* (Sorbonne Jussieu, Paris)
- 2022-01 · Flash talk at *Journées de Physique Statistique 2022* (ENS, Paris)
- 2021-11 · Flash talk at *Multiscale integration in Biological Systems* (Institut Curie, Paris)

POSTER PRESENTATIONS

- 2023-08 · *Perspectives on Non-Equilibrium Statistical Mechanics* (YITP, Tokyo)
- 2023-06 · *Active matter at surfaces and in complex environments* (MIPPKS, Dresden)
- 2023-05 · *Workshop on Signatures of Nonequilibrium fluctuations in life* (ICTP, Trieste)
- 2022-12 · *Population dynamics: from rare events to evolution* (Université Grenoble Alpes, Grenoble)

OTHER INFORMATION

Awards

- 2023 · International Mobility Fellowship
- 2021 - 2024 · IdEX International PhD Fellowship
- 2020 - 2021 · Paris-Saclay International Master’s Scholarship