



# Vincent Bertin

## Curriculum Vitae

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📄 <https://vincent-bertin.github.io/>

19 nov 1994

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## Education

2018 - **PhD in physics**, *University of Bordeaux & ESPCI Paris.*

Thin films. Elastohydrodynamics. Swimming droplets under confinement. Landau-Levich.  
Under the supervision of *Thomas Salez* et *Elie Raphaël*.

**Collaborators** : Yacine Amarouchene, Abdelhamid Maali (Univ. Bordeaux), Olivier Dauchot, Mathilde Reyssat, Joshua McGraw (ESPCI Paris), Kari Dalnoki-Veress (McMaster University Canada), Jacco Snoeijer (University of Twente Netherlands), Oliver Bäumlchen (Max Planck Institute Germany).

2014 – 2018 **École Normale Supérieure**, *Élève normalien.*

2017 : Master of physics ICFP ENS - Soft Matter and biophysics

2015 : Bachelor of fundamental physics FIP ENS

2012 – 2014 **Preparatory school**, *Lycée Thiers, Marseille.*

## Publications

### Articles

7. **V. BERTIN**, Z. ZHANG ET. AL., *Non-contact rheology of finite-size air-water interfaces.* arXiv 2009.14531.
6. A. VILQUIN, **V. BERTIN**, P. SOULARD ET. AL., *Time dependence of advection-diffusion coupling for nanoparticle ensembles.* arXiv 2007.08261.
5. **V. BERTIN**, C. LEE ET. AL., *Capillary Levelling of a Liquid Stepped Film Supported on an Immiscible Liquid Film.* Journal of Fluid Mechanics **911**, A13, 2021
4. **V. BERTIN** ET AL., *Symmetrization of Thin Free-Standing Liquid Films via Capillary-Driven Flow,* Physical Review Letters **124**, 184502, 2020.
3. Z. ZHENG, **V. BERTIN** ET. AL., *Direct measurement of the elastohydrodynamic lift force at the nanoscale,* Physical Review Letters **124**, 054502, 2020.
2. J.M. AURNOU, **V. BERTIN** ET. AL., *Rotating thermal convection in liquid gallium: multi-modal flow, absent steady columns,* Journal of Fluid Mechanics **846**, 846-876, 2018
1. M. RIVETTI, **V. BERTIN** ET. AL., *Elastocapillary Levelling of Thin Viscous Films on Soft Substrates,* Physical Review Fluids **2**, 094001, 2017.

### Conferences

**National** - GDR Liquids at Interfaces (Grenoble 2017, Bordeaux 2018, Grenoble 2019), Journée de la Physique Statistique (2019, 2020), Voyage Gulliver (Lyon 2017, Amsterdam 2019).

**International** - APS March Meeting 2018 Los Angeles, ICTAM 2020+1 Milan, APS March Meeting 2021 (online).

**Summer school** - LAI Cargèse 2019.

## Skills

- Languages Français (Mother tongue), English (fluent), Español (basics)
- Computer Python, Mathematica,  $\LaTeX$ , ...
- Social Student representative at Gulliver (~ 50 pers.)  
Organizer of student seminar (~ 2/mois)
- Outreach Fête de la science 2018 - 2019 - 2020  
Climate Collage - Organizer of workshops on Climate Change.

## Awards

- 2020 Jean Langlois foundation prize

## Teaching

- 2017 - 2018 **Physics tutorials (colle)**, *Lycée Condorcet Paris*, MPSI (2h/weeks).
- 2018 - 2021 **Applied mathematics**, *ESPCI Paris*, L3/M1, ~45h/year.
- 2018 - 2020 **Supervision of experimental projects**, *Ecole Normale Supérieure*, L3 Physique FIP, 32h/year.