



Vincent Bertin

Curriculum Vitae

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19 nov 1994

Last update : july 2020

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 Baumchen (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

6. A. VILQUIN, **V. BERTIN**, P. SOULARD ET. AL., *Time dependence of advection-diffusion coupling for nanoparticle ensembles*. Submitted
5. **V. BERTIN**, C. LEE ET. AL., *Capillary Levelling of a Liquid Stepped Film Supported on an Immiscible Liquid Film*. arXiv:2005.01974
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 Milan.

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 ($\sim 2/\text{mois}$)
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, $\sim 45\text{h/year}$.
2018 - 2020 **Supervision of experimental projects**, *Ecole Normale Supérieure*, L3 Physique FIP, 32h/year .