Davi Lazzari

PHYSICS PHD STUDENT

Profile

Resourceful and dedicated PhD student with excellent analytical and computational skills. Able to effectively self-manage during independent projects, as well as collaborate as part of a productive team.

Education

Bachelor in Physics (2018), UFRGS, Porto Alegre, BR

Title: "Wetting properties in Surfaces with Spacial and Chemical Disorder."

Advisor: Carolina Brito

2013 — 2018

Ongoing PhD in Statistical Physics (2024), UFRGS, Porto Alegre, BR

Internship at Gulliver Lab (6 months, 2023), ESPCI-PSL, Paris, FR

Work in progress on "Wetting and Active Matter".

Advisor: Carolina Brito.
Co-Advisor: Olivier Dauchot.

2020 — 2024

Publications

Tuning collective actuation of active solids by optimizing activity localization. (2024)
Davi Lazzari, Olivier Dauchot & Carolina Brito.
Soft Matter, 2024, DOI: 10.1039/D4SM00868E

Hierarchical structured surfaces enhance the contact angle of the hydrophobic (meta-stable) state. (2023)
Iara Ramos, Cristina Gavazzoni, Davi Lazzari & Carolina Brito.
The Journal of Chemical Physics, 158(15).

Geometric and chemical nonuniformity may induce the stability of more than one wetting state in the same hydrophobic surface. (2019)
Davi Lazzari & Carolina Brito.
Physical Review E, v. 99, p. 032801, 2019.

Participation in Events

2024 - School of Active Matter, ICTP-SAIFR.

2022 - School and Conference Physics of Active Matter, Millennium Nucleus, Universidad de Chile.

2022 - School on Disordered Elastic Systems, ICTP-SAIFR.

2021 - XI Workshop in Complexity of Water, Other Liquids and Education, UFPel and UFRGS,
Oral presentation: Effect of disorder in wetting characteristics of superhydrophobic surfaces.

2017 - XI Workshop: Out of Equilibrium Dynamics in Soft and Condensed Matter, UFRN.
Poster presentation: Phase metastability of hydrophobic surfaces with spatial disorder.