



CURRICULUM VITÆ

Vincent LANGLOIS, PhD

Associate professor in Geophysics

Age 44.
French citizenship.
Married, one child.

Address : Laboratoire de Géologie de Lyon, 2 rue Raphael Dubois, 69100 Villeurbanne - France

E-mail : vincent.langlois@univ-lyon1.fr

 perso.ens-lyon.fr/vincent.langlois/?lang=en

Phone : +33 472 432 742

 scholar.google.fr/citations?user=Vp-pWaQAAAAJ

Professional experience

2009-present **Associate Professor**, Department of Earth Sciences & Laboratoire de Géologie de Lyon, University of Lyon (France).

Research Interests : Granular Physics, Sediment transport, Rockslides, Impact craters, Earthquake statistics, Periglacial Geomorphology.

Teaching (200 h/y) : Geophysics, Fluid mechanics, Maths & python coding, Soil mechanics & geotechnics, Natural hazards, Atomic Structure, Intro to Earth sciences.

2008 **Post-doctoral researcher** with Pr. T. Bohr and Pr. T. Kjørboe, Technical University of Denmark. *Fluid dynamics of animal locomotion*.

2006-2007 **Post-doctoral researcher & Teaching assistant** with Pr. D. Weaire and Pr. S. Hutzler, Trinity College Dublin (Ireland). *Rheology of liquid foams*.

2002-2005 **PhD candidate & Teaching assistant**, supervised by Pr. A. Valance, University of Rennes (France). *Physics of sand ripples*.

Education

2005 **PhD in Physics**, *Instability of a granular bed sheared by a unidirectional fluid flow*. Obtained with honours at the University of Rennes (France).

2002 **Master's Degree in Physics**, École Normale Supérieure de Lyon (France).

2000 **Bachelor's Degree in Physics & Chemistry**, École Normale Supérieure de Lyon.

2000-2002 Research Internships : *Galactic halos of white dwarfs* ; *Thermal convection in Earth's mantle* ; *Experimental study of sand ripples*.

Selected recent publications

- M. Hénot, **V.J. Langlois**, N. Plihon, N. Taberlet, How dirt cones form on glaciers : Field observation, laboratory experiments, and modeling, *Phys. Rev. E*, **107** : 034905 (2023).
- P. Allemand, E. Lajeunesse, O. Devauchelle, **V.J. Langlois**, Entrainment and deposition of blocks in a gravel bed river, *Earth Surface Processes*, **11** : 21-32 (2023).
- M. Hénot, **V.J. Langlois**, J. Vessaire, N. Plihon, N. Taberlet, Formation of glacier tables caused by differential ice melting : field observation and modelling, *The Cryosphere*, **16** : 2617-2628 (2022).
- G. Aubert, **V.J. Langlois**, P. Allemand, Bedrock incision by bedload : insights from direct numerical simulations, *Earth Surf. Dynam.*, **4** : 327-342 (2016).
- **V.J. Langlois**, A. Quiquerez, P. Allemand, Collapse of a two-dimensional brittle granular column : implications for understanding dynamic rock fragmentation in a landslide, *J. Geophys. Res. Earth Surf.*, **120** (2015).