

Adrien Guérin

Postdoc at Universidad Adolfo Ibañez, Viña del Mar, Chile

Universidad Adolfo Ibañez
750 Av. Padre Hurtado, Viña del Mar, Chile
adrien.guerin2@gmail.com
<http://adrienguerin.fr>

Professional experiences

- May-July 2017 **Teacher** in hydrogeology at Master's level at Andrés Bello University, Viña del Mar, Chile
- Sept.-Dec. 2016 **Visiting postdoc** in Raymond Goldstein's group, at the Department of Applied Mathematics and Theoretical Physics (DAMTP), University of Cambridge
- Jan. 2016–present **Postdoctorate on fog collection** in the Bioengineering Laboratory, Universidad Adolfo Ibañez
- 2012–2015 **Ph.D. on groundwater flow** in the Geological Fluid Dynamics Laboratory, Institut de Physique du Globe de Paris
- 2012–2015 **Teaching assistant** in physics in the Earth and Planetary Sciences Department, Denis Diderot University, Paris
- May-July 2010 **Research Internship on deltas formation** in the Department of Earth & Environmental Sciences, University of Pennsylvania, Philadelphia, PA
- June-July 2009 **Research Internship on submarine barchan dunes** at the Institut de Physique de Rennes

Education

- 2015 **Ph.D.** in Earth Sciences at the IPG Paris
- 2012 **Master's degree** in Earth Sciences at the École Normale Supérieure, Lyon
- 2010 **Bachelor's degree** in Physics at the École Normale Supérieure, Lyon
- 2005–2008 **Classe préparatoire** in Physics at the Lycée Châteaubriand, Rennes

Publications & Awards

Articles

- ▷ A. Guérin, S. Gravelle, J. Dumais, Forces behind plant cell division, *Proceedings of the National Academy of Sciences*, 113(2), 8891-8893
- ▷ A. Guérin, O. Devauchelle, E. Lajeunesse, Response of a laboratory aquifer to rainfall, *J. Fluid Mech.*, 759, R1 doi:10.1017/jfm.2014.590
- ▷ F. Falcini, A. Piliouras, R. Garra, A. Guerin, D. J. Jerolmack, J. Rowland & C. Paola, Hydrodynamic and suspended sediment controls on river mouth morphology, *J. Geophysical Research: Earth Surface*, 119, 1-11, (2014)

Invited communications

- ▷ Formation de crues rapides par des écoulements en aquifère non confiné, A. Guérin, O. Devauchelle, E. Lajeunesse, *Ladhyx, Université Paris Saclay* (Laboratory seminar, 2016)
- ▷ Generation of quick flood events by a groundwater flow, A. Guérin, O. Devauchelle, E. Lajeunesse, *BP Institute, University of Cambridge* (Laboratory seminar, 2016)
- ▷ Dynamique de l'écoulement dans un aquifère non confiné, A. Guérin, O. Devauchelle, E. Lajeunesse, *Laboratoire de Physique de la Matière Condensée, Nice* (Laboratory seminar, 2015)
- ▷ Relation nappe-rivière et dynamique des écoulements souterrains, A. Guérin, O. Devauchelle, E. Lajeunesse, *Institut Jean le Rond D'alembert, UPMC, Paris* (Laboratory seminar, 2014)

Awards

- ▷ Best student presentation at the 2015 conference of FlowTrans, an international group meeting on flow in porous media.

Languages & Skills

- ▷ French: mother tongue
- ▷ English, Spanish, German: fluent
- ▷ Italian: beginner
- ▷ Programming: advanced Python, html, L^AT_EX, FreeCAD, LibreCAD