Brief Biosketch of Johan Gaume

Johan Gaume received his PhD from the Grenoble University in 2013. He was then a postdoc at ETH Zürich and at the WSL Institute for Snow and Avalanche Research SLF in Davos, Switzerland. In 2016, he joined EPFL as a research and teaching associate. He was a visiting scholar in the Department of Mathematics of UCLA (2017) and in the Computer and Information Science Department of UPenn (2018). In 2019, he became Assistant Professor at EPFL and head of SLAB, the Snow and Avalanche Simulation Laboratory. His research focuses on the initiation and propagation of gravitational mass movements with a particular focus on snow and avalanche mechanics which includes the development of multiscale numerical methods. He developed, in collaboration with Prof. Joseph Teran at UCLA and Prof. Chenfanfu Jiang at UPenn, new constitutive snow models to simulate avalanche release and flow at the slope scale in a unified manner using the Material Point Method. He received the Excellence Scholarship from the Swiss Government and was awarded the Ambizione grant and Eccellenza Professorial fellowship from the Swiss National Science Foundation.