Dr. Valentin Jaumouillé is conducting a multidisciplinary research program at Simon Fraser University, at the interface of immunology, cell biology, and biophysics, with a strong emphasis on quantitative live cell imaging approaches. Originally trained as a microbiologist at the Institut Pasteur in Paris, he decided to focus on innate immunity in the lab of Sergio Grinstein, at the Hospital for Sick Children in Toronto, where he studied the molecular dynamics and activation mechanisms of immunoreceptors. Dr. Jaumouillé then joined the laboratory of Clare Waterman at the NIH, where he revealed the role of mechanical forces in integrin-mediated phagocytosis. As an independent investigator, his aim is to understand how mechanical cues regulate innate immune responses in the context of infections and tumors.