

Elisabeth Kugler combines experimental sciences with computational modelling to examine vascular development and disease. She conducted her BSc in Biology and MSc in Molecular Biology at the University of Innsbruck and interned at the Medical University of Innsbruck and EMBL Heidelberg. For her PhD at the University of Sheffield, under the supervision of Dr Paul Armitage and Prof Dr Tim Chico, Elisabeth developed image analysis pipelines to quantify and describe the 3D zebrafish brain vasculature, as well as characterised the EC membrane behaviour in brain vessels, termed *kugeln*. For her PostDoc as UCL Research Fellow with Dr. Ryan MacDonald, Prof. John Greenwood, and Prof. Christiana Ruhrberg, she aims to build an image-based model to describe neurovascular development in the zebrafish retina.