

Tanja Pelzmann

Tanja Pelzmann has a background in physics and graduated with a Master's in Advanced Materials Science (track: metals and ceramics) from Graz University of Technology in 2014. She has worked thereafter as a researcher for Joanneum Research GmbH focusing on wave propagation, satellite navigation and space technology. She was responsible for the main design, experimental execution and data analysis of a project in the European Space Agency's ARTES 5.1 framework. In 2016, she joined the Multiphase and Reactive Flows Laboratory at École Polytechnique Montréal where she is constantly pursuing her PhD focusing on the fire behaviour of aeronautical composites. To this end, she developed a small-scale test bench with integrated diagnostics to study the thermophysical properties and their evolution over time of materials subjected to different flames. The project is in close collaboration with industry. The experimental results contribute furthermore to the validation of numerical modelling and the development of new materials and protective solutions in aerospace application.