



Dr Eva Bestelink

University of Surrey, United Kingdom

Dr Eva Bestelink recently received her PhD in 2022 from the Advanced Technology Institute, University of Surrey, under the supervision of Prof. Radu Sporea. Prior to her PhD, she completed her BEng in Electronic Engineering with Nanotechnology, where she received The Oclaro Technology Prize for Best Performance in the Semiconductor Devices and Optoelectronics module. During her PhD, she was awarded an Institute of Engineering and Technology (IET) Postgraduate Prize for Excellence and Innovation in Engineering.

Since her PhD, Eva has continued to work with Prof. Sporea as a Research Fellow in thin-film transistors (TFTs) and circuits for large area electronics. She specializes in unconventional contact-controlled TFT architectures, including source-gated transistors (SGTs) and the newly-invented multimodal transistor (MMT), of which she co-invented with Prof. Sporea during her undergraduate degree.

Currently, Eva's main research involves fabrication, characterization, and simulation of many aspects of contact-controlled device operation and circuit design, including: mitigation of device nonidealities and stability of temperature; discovering new optoelectronic behaviour; and design of compact MMT-based pixel drivers with advanced functionality. As contact-controlled transistor operation is material agnostic, Eva works with many regional and international collaborators for device fabrication in various technologies, including organic, amorphous oxide, and thin-film silicon semiconductors.