

## **3D printing of textiles with focus on underwear**

Anne Markard<sup>1</sup>, Jana Schmer<sup>1</sup>, Lea Lüpsen<sup>1</sup>, Lisa Pavlic<sup>1</sup>, Lilia Sabantina<sup>1,2</sup>

<sup>1</sup> *Niederrhein University of Applied Sciences, Faculty of Textile and Clothing Technology, 41065 Moenchengladbach, Germany;*

<sup>2</sup> *Junior Research Group "Nanomaterials", Bielefeld University of Applied Sciences, Faculty of Engineering and Mathematics, 33619 Bielefeld, Germany;*

The presentation will provide an overview of potential applications of 3D printing technologies in the textile industry. It especially focuses on the manufacturing processes and gives examples of bras, bikini tops and underpants and how they can be customized for consumers. Since the topic sustainability will become more and more important for the industry, it will be discussed, how additive manufacturing can be part of an environmentally friendly future.