



**Nicola Migliore**

### **Amphiphilic Copolymers: synthesis and use in smart materials and industrial applications**

Nicola received his Master degree (2017) in Industrial Chemistry at the University of Pisa (Italy), however he spent the last year of his master as research student at University of Groningen (Netherlands) where he had the opportunity to work on conductive and smart materials. The same year, he joined the University of Groningen as PhD student in the Chemical Product Engineering group, working on the synthesis and the studies of new amphiphilic copolymers. He spent 7 months as visiting PhD student at University of Florida (USA) under the supervision of Prof. Brent Sumerlin, then other 7 months at CSIRO (Australia) under the supervision of Dr. Graeme Moad. During this period, he had the opportunity to deepen his knowledge on controlled photopolymerization synthesis.

As mentioned before, his research project has as main objective the design and preparation of new amphiphilic copolymers as potential systems for applications of industrial relevance. To control the final structure of the polymers, polymerization methods such as ATRP and RAFT are preferred. Moreover, his research is focused on redesigning the synthesis of amphiphilic polymers in a friendly way using bio based materials.

