

Francesca Santangeli studied Chemistry in Sapienza University of Rome and got her master's degree in 2022. She is now a second year PhD student in Sapienza University of Rome in the Nanospectroscopy group under the supervision of Prof. Marta De Luca. Her main work revolves around studying the optoelectronic properties of InN semiconductor nanowires by spatially resolved  $\mu$ -Raman and  $\mu$ -photoluminescence. The aim is to create quantum dots for quantum technologies using low-energy hydrogen irradiation of nanowires.