

Lucia Giuliano graduated in 2017 with a degree in Biomedical Engineering from Sapienza University of Rome, earning a final grade of 110/110. In November 2018, she enrolled in the PhD program in Accelerator Physics at Sapienza University of Rome. In February 2022, she obtained her PhD with distinction, defending the thesis "Electron Linacs for FLASH Radiotherapy." During her PhD, she focused on the electromagnetic design of a low-energy (7 - 12 MeV) electron accelerating structure for the production of beams for FLASH radiotherapy, a groundbreaking cancer treatment technique. The accelerating structure was used to build a medical accelerator, currently operational at the Curie Institute (Orsay, France), a scientific research center specializing in cancer biology and therapeutic treatments. At the Institute Curie, Lucia Giuliano spent part of her PhD program, characterizing electron beam parameters and participating in the irradiation of cell cultures (in-vitro) and small animals (in-vivo). The accelerator was reproduced and recently installed in other research facilities, including the Pisan University Hospital, where Lucia Giuliano conducted a research period, and the University of Antwerp. Currently, Lucia Giuliano is a fix term researcher at Sapienza University of Rome in the Department of Basic and Applied Sciences for Engineering, where she continues her research on very high-energy electron (VHEE) accelerating structures for FLASH radiotherapy. She also provides teaching in Physics courses in the faculties of Engineering and Medicine and Surgery at Sapienza University of Rome.