



Angela Corvino

Postdoctoral Scholar, General Surgery

Bio

PROFESSIONAL EDUCATION

- Bsc, Pisa University , Physics (2019)
- Msc, Pisa University , Medical Physics (2022)
- PhD, Paris Saclay University , Medical Physics (2025)

STANFORD ADVISORS

- Frederick Dirbas, Postdoctoral Faculty Sponsor

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Postdoctoral researcher pioneering the advancement of novel radiotherapy approaches (FLASH, SFRT) to tackle a critical challenge: minimising damage to healthy tissue surrounding difficult to treat tumors. I'm hands-on in all stages of preclinical experimentation, spanning from Monte Carlo simulations for planning and precise dosimetry, to conducting small animal irradiation, follow-ups, and insightful data analysis.

Publications

PUBLICATIONS

- **PATHY-inspired partial tumor irradiation on a small-animal irradiator: workflow development and first therapeutic evaluation in glioma** *PHYSICS IN MEDICINE AND BIOLOGY*
Corvino, A., Juchaux, M., Gilbert, C., Espenon, J., Sebie, C., Tubin, S., Prezado, Y.
2026; 71 (13)
- **PMC11972043** *Photon mini-GRID therapy for preoperative breast cancer tumor treatment: A treatment plan study*
Corvino, A.
2025