Raj Jena

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Biography

I am group leader for a multidisciplinary machine learning and computational radiotherapy research group, based in the Department of Physics at the University of Cambridge. I am a key opinion lead in the area of artificial intelligence in medical imaging.

In my clinical work, I am an academic consultant radiation oncologist at Addenbrooke's Hospital in Cambridge. I specialise in non-surgical treatment of tumours of the brain and spine, clinical lead for stereotactic radiosurgery.

I have expertise in clinical trials, and I am Chief Investigator for Hamlet.rt – the leading prospective AI study in radiation therapy in the UK which has recruited over 1400 patients at 12 sites and is the lead recruiting radiotherapy study in the UK National Cancer Research Network portfolio and given rise to two innovative translational research studies in the CRUK Cambridge Institute.

I have a strong track record of collaborations in both academic and commercial space. I am the current director of the National Institute for Healthcare Research's Oncology Translational Research Collaboration (O-TRC) which drives collaboration in cancer research across all NIHR Biomedical Research Centres and collaborating sites in the devolved nations. I have brokered a decade long clinical collaboration with Microsoft and worked as a clinical consultant at Microsoft Research for 5 years.

I have achieved success in the 'final mile' journey of translating computational research into clinical practice. I have been commissioned to develop computational models for NHS England (The Malthus Project) and my algorithms have been published in award winning commercial software applications. I led a project with the NHSx AI lab to create the first cloud-based open-source AI medical device to be developed within the NHS, known as OSAIRIS.