Curiiculum vitae

Dr. Paolo Maccarini, Ph.D.

Within the renown Double-Diploma Erasmus Program, Dr. Maccarini has received two BS+MS degrees in Italy (Politecnico di Torino) and France (Enserg, now INP, Grenoble) on advanced signal processing and electromagnetism After working at Apple Research Labs in Paris, France, and CERN in Geneva, Switzerland, he moved to US to complete his MS+PhD degrees in Electrical Engineering (Solid State Devices and Microwave Circuits) from the University of California in Santa Barbara (UCSB) After spending 3 years at University of California in San Francisco (UCSF) as a Postdoctoral Fellow under Prof. Paul Stauffer to develop novel microwave-based heating and radiometric technologies, he moved to Duke University, where he is an Assistant Research Professor. With appointments in Radiation Oncology, Biomedical Engineering, Anesthesiology and Electrical Engineering, Dr. Maccarini started several multidisciplinary collaborations across Duke, other Institutions and companies to develop and clinically translate novel technologies for thermal medicine. His work on brain-blood barrier thermal modulation and microwave radiometry was bestowed the Chandran and SingHealth awards respectively, while his clinical translation work on intraventricular brain cooling and lung core biopsy were awarded by MedBlue Incubator. He is member of several professional societies including IEEE and Society for Thermal Medicine (STM) and has been reviewer for numerous journals and funding agencies. He is also working with Endra Lifescience to develop the next generation of portable thermoacoustic systems for fatty liver diagnostics and real-time feedback of thermal therapies. Dr. Maccarini's diverse background together with his connections with space/military/communication/medical industries allowed the successful development of several technologies, including the first miniature noninvasive radiometric brain thermometer and thermally-enhanced immune blockage inhibition.