

David Gultekin, PhD
Associate Research Scientist

David Gultekin, PhD, joined Columbia University from Memorial Sloan-Kettering Cancer Center and Cornell Medical College, where he had joint appointments as assistant professor. More recently, he also conducted research at Cedars-Sinai Medical Center. He provided a broad range of physics and engineering expertise for cancer imaging and participated in multi-institutional clinical trials for the assessment of response to radiation, chemical cytotoxic and targeted therapies such as monoclonal antibodies and anti-angiogenic therapies. He developed methods and algorithms for processing large radiological datasets to enhance clinical practice and research. He investigated MRI techniques to measure mass and energy transport processes with high spatial and temporal resolutions and developed methods for measuring thermal diffusivity, thermal conductivity, heat transfer coefficients, specific heat, specific absorption rate, thermal power and heat of reaction in substances noninvasively. He received a BS degree at ITU-Istanbul, an MS degree at Stevens, completed a graduate program at MIT and then received MS, MPhil and PhD degrees at Yale University. He held postdoctoral and fellowship positions at Duke, Caltech and Johns Hopkins. Dr. Gultekin currently conducts research in NMR thermometry and also serves as MRI Safety Officer for Columbia University.