My research were focused on the development of magnetic resonance imaging (MRI) methodology and image analysis for treatment planning and risk prediction of neurological diseases, which include perfusion, diffusion, spectroscopic imaging, magnetization transfer imaging, blood brain barrier permeability, mean vascular density, susceptibility weighted MRI (SWI) incorporating phase information, MRI molecular imaging, q space diffusion tensor imaging (q ball and persistent angular structure MRI), functional MRI (fMRI), and MRI modeling of pathological tissue.

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