



## Koray Ertan

Postdoctoral Scholar, Radiological Sciences Laboratory

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#### BIO

Koray Ertan received his BSc degree in the Department of Electrical and Electronics Engineering at Bilkent University, Turkey. He completed his PhD in the same department under the supervision of Prof. Ergin Atalar. During his PhD, he worked as a researcher at National Magnetic Resonance Research Center (UMRAM) of Turkey. His thesis study is the development of novel magnetic resonance imaging (MRI) technologies such as gradient array systems for increasing diagnostic quality of the MR images, reducing the specific absorption rate and scan time.

He joined Prof. Brian Rutt's group as a postdoctoral researcher in April 2019. Later, he was also affiliated as a MINDED postdoctoral fellow in June 2019. As part of the MINDED program, his current research focuses on a system for modulating the permeability of the blood brain barrier using focused radio frequency heating generated from ultra-high field MRI transmit coils for enhanced treatment of neurodevelopmental disorders with nanomedicines. Additionally, his research interest mostly includes MRI technologies such as RF pulse design, gradient systems, field monitoring, multi-coil gradient and shim arrays.