

Stanford



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Affiliate, Rad/Neuroimaging and Neurointervention

Bio

BIO

I graduated with a Bachelor of Science in Electrical & Electronics Engineering from Bo#aziçi University, Istanbul, Turkey and got my M.S. and Ph.D. degrees in Electrical Engineering at Stanford University under the supervision of Dr. Roland Bammer. Currently, I am working as a research associate in the department of Radiology at Stanford University. My primary research interest is the detection and correction of patient motion during magnetic resonance imaging experiments using an optical tracking system (i.e., a camera) which is installed inside the MR scanner bore. My eventual purpose is to implement this motion tracking system in a clinical setting, which will improve the MR image quality especially for certain patient populations (stroke patients, elderly and children) and will eliminate the need of anesthesia in pediatric population. I also worked on improving the data quality for diffusion-weighted and diffusion-tensor imaging via advanced reconstruction routines, and examined the benefits of such methods on fiber tractography.