



THE UNIVERSITY OF ARIZONA
COLLEGE OF ENGINEERING

Biomedical Engineering

DEPARTMENT OF BIOMEDICAL ENGINEERING SEMINAR SERIES

PRESENTS

Silu Han

PhD Candidate
Biomedical Engineering
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[Chen Lab](#)

“Fast Magnetic Resonance Imaging (MRI) Techniques: Principles and Reconstruction”

ABSTRACT: Fast MRI techniques have been developed to shorten scan time, reduce motion artifacts and measure the dynamic activity. Echo Planar Imaging (EPI), which is an MRI pulse sequence allowing the collection of 2D data after a single RF excitation, can significantly shorten acquisition time (e.g., < 100 msec per 2D image), decrease motion artifact and image rapid physiologic processes. EPI can be further accelerated with two recently developed techniques, multi-band imaging (MB) and parallel SENSitivity Encoding Imaging (SENSE). However, images reconstructed from these accelerated MRI are prone to various types of aliasing artifact, and thus advanced reconstruction procedures are needed to produce high-quality images from accelerated scans.

AND

Chat with Dr. Yoon

BME Graduate Student Check-in with Graduate Studies Chair

Please join us on

Monday, November 4th, 2019

12:00-12:50 pm, Keating Bldg., Room 103

Refreshments will be available at 11:50 am

Hosts: Drs. DK Kang and Minkyu Kim

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Persons with a disability may request a reasonable accommodation by contacting the Disability Resource Center at 621-3268 (V/TTY).

