



Science Series

Introduction to Radiology & Basics of Imaging Modalities



Wednesday, January 9th, 2019
9:00-11:00am, LKSC 120

Click [HERE](#) to Register!

The mission of the Stanford Center for Clinical Research (SCCR) includes offering educational resources, training, and support for investigators and research staff. We have invited Radiology Residents, **Amit Chakraborty, MD, Mary Koran, MD, PhD, Andrew Wentland, MD, PhD, and Jason Ni, MD**, to present on the basics of radiology and various imaging modalities including how images are acquired, advantages and disadvantages of each modality, and relevant safety concerns including radiation exposure. Topics covered will include radiography/fluoroscopy, ultrasound, CT, and MRI.

At the conclusion of this class, you will be able to:

- *Identify the basic fundamentals of how images are acquired*
- *Identify advantages and disadvantages of imaging modalities*
- *Identify safety concerns for various imaging modalities*

Attendance is open to all research staff

About the Instructors:



Amit Kumar Chakraborty, MD, is a PGY3/R2 Radiology resident at Stanford University from Lexington, Kentucky. He completed his undergraduate degree at Vanderbilt University in Chemistry and Mathematics

and his medical degree at the University of Kentucky. His professional interests include education and mentorship. Outside of work, Amit enjoys video games, spending time with friends and family, and playing and watching sports.



Mary Ellen Irene Koran, MD, PhD, grew up in Annapolis, Maryland. She attended college at Duke University, where she majored in Biomedical Engineering with a minor in Chemistry. After

graduation, Mary Ellen moved to Nashville, Tennessee to join the Medical Scientist Training Program (MSTP) and earn her combined MD/PhD at Vanderbilt University. She completed her PhD in Human Genetics in the laboratory of Dr. Tricia Thornton-Wells, where she studied the radiogenomics of Alzheimer's disease.



Andrew Louis Wentland, MD, PhD, is currently a third year radiology resident. Andrew began his foray into radiology research as an undergraduate at the University of Wisconsin (UW), in which he worked on accelerated flow imaging with

MRI. Inspired by his undergraduate experiences with radiologists and medical physicists, he continued his education in the MD/PhD program at UW. He carried on with his work in accelerated imaging techniques with MRI, earning his PhD in medical physics in 2012. For his work he was awarded an NIH F30 fellowship, which allowed Andrew to continue his research as a third and fourth year medical student. Concurrently he applied to a radiology residency and joined the Stanford residency program in 2016. Upon completion of his residency, he will undertake a fellowship at the University of Wisconsin School of Medicine, his alma mater.



Jason Ching-Arn Ni, MD, grew up in Fremont, California. He attended college at UC Berkeley, where he majored in Bioengineering with a minor in Electric Engineering/Computer

Science. He then completed the Master of Translational Medicine program at UC Berkeley/UCSF. After graduation, Jason attended medical school at the David Geffen School of Medicine at UCLA, where he participated in research in innovative medical devices. Jason enjoys playing and watching basketball, snowboarding, and traveling the world with his fiancé, Minnie.

BRN OPTIONAL

Spectrum is an approved provider by the California Board of Registered Nursing, Provider Number CEP15435 for 2 contact hour(s).

To receive your certificate with BRN credit, you are required to complete an evaluation at the conclusion of this class.

BRN Cancellation Policy: If you wish to cancel your registration, please contact the course coordinator, Kiera Larsen, klarsen5@stanford.edu.