



Biomedical Informatics Grand Rounds



Peter McCaffrey, MD

Assistant Professor of Pathology at the University of Texas Medical Branch

Director of Pathology Informatics and Laboratory Information Systems

Deep Learning in Diagnostic Medicine: Current Use Cases and Future Opportunities

Wednesday, Oct 21, 2020 3 pm - 4 pm

Abstract:

Deep Learning has seen rapid advancement over the past several years in automation, text processing, and image recognition. Although healthcare has not yet experienced a transformation to the extent of other industries, it does seem increasingly clear that this technology will drive meaningful and lasting change within our field. As practitioners of medicine and informatics, we are best equipped when we understand both the technical underpinnings and the applied examples where this technology can be extremely valuable and where it can be profoundly inadequate. In this presentation, we will discuss deep learning as a strategy for modeling data and we will examine current examples of its use in healthcare. Moreover, we will discuss why some use cases are particularly promising while others are not and how we can navigate being at this critical intersection of artificial intelligence and healthcare.

Bio:

Peter McCaffrey is a board-certified Pathologist serving as Director of Pathology Informatics at the University of Texas Medical Branch as well as Co-Founder and CTO of VastBiome, a drug discovery company mining the human gut microbiome for novel cancer therapeutics. Peter completed his medical training at The Johns Hopkins University School of Medicine and his Residency in Pathology at The Massachusetts General Hospital where he also served as Chief Resident. After Residency, he completed a Fellowship in Biodesign at the Texas Medical Center in Houston. Peter's interests are varied and encompass both clinical and bioinformatics with a particular focus on artificial intelligence and its applications within healthcare.

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