

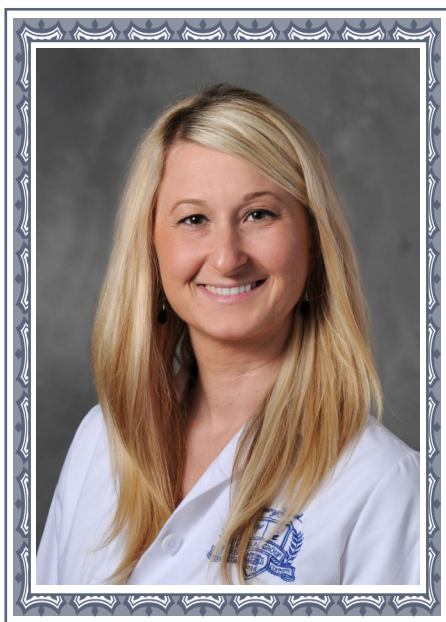


Medical Physics Seminar



Monday, October 1st, 2018

1345 HSLC ~ 4:00 P.M.



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Toward High Precision MRI in Simulation and Treatment Delivery

Due to its excellent soft tissue contrast, MRI has emerged as a primary radiation therapy treatment planning modality for many disease sites. The advent of MR-guided radiation therapy (MRgRT) has shown incredible promise for localization, real-time monitoring, and tumor tracking. As we move toward MR-only patient models for treatment planning and delivery, a need exists to fully quantify the uncertainties to ensure high fidelity MR-guided radiation therapy. This talk will provide an overview of these uncertainties, highlight strategies to mitigate them, and demonstrate future applications of on-board functional imaging, with the overarching goal of implementing high precision MR-SIM and MR-IGRT.

1345 Health Sciences Learning Center (HSLC) 4:00 - 5:00 P.M.