



**VISITING PROFESSOR – January 21, 2021**  
**All lectures will be delivered on ZOOM**

**Dr. Benjamin M. Yeh**  
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**Department of Radiology and Biomedical Imaging**  
**School of Medicine**  
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At pivotal moments in a patient's care, Computed Tomography (CT) scans are obtained to provide anatomic delineation of possible disease. CT provides generally reliable high-resolution images of most body parts. But better results are possible when one considers CT technique, with an aim to maximize the diagnostic value of a given dose of X-ray photons, Dr. Yeh is a translational clinician scientist looking to improve CT for everyday diagnoses. Dr. Yeh has coordinated the Dual Energy CT Hands-On Course at the Society of Abdominal Radiology for the past 7 years and regularly speaks on multi-energy CT imaging. Examples of his research interests include the evaluation of low dose and multi-energy CT imaging, understanding anatomic landmarks that can facilitate abdominal diagnoses, and translation of novel CT contrast agents. Used appropriately, dual energy CT increases the breadth and confidence of CT diagnoses. Multi-energy CT will further advance the capabilities of CT to reveal the atoms within imaged voxels. New CT contrast agents, designed

for use with multi-energy CT, can provide improved diagnostic capabilities over what is currently available. When used in combination, new contrast agents appear as distinct "colors" at dual energy CT can be delineated from each other with high spatial and signal resolution. Multi-contrast multi-energy CT will provide profoundly more vivid interrogation of bodily anatomy.

Dr. Yeh has been continuously NIH funded since 2007 with over \$10M in R01, R21, and STTR awards. He collaborates with industry partners to develop new CT technology. Dr. Yeh's research group is recognized locally and nationally for mentoring of trainees, and he has published over 200 peer reviewed papers. Dr. Yeh founded a startup company, Nextrast, to translate new CT contrast agents for clinical use.

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**AGENDA**

**Thursday, January 21, 2021**

<b>12:00 pm</b>	<b>Introduction</b>
<b>12:00 – 1:00 pm</b>	<b>LECTURE: <i>Practical applications in multi-energy CT, now and in the future</i></b>
<b>1:00 – 1:05pm</b>	<b>BREAK</b>
<b>1:05 – 2:30 pm</b>	<b>Resident Case review session</b>
<b>2:30:- 2:40 pm</b>	<b>BREAK</b>

2:40 – 3:30 pm

LECTURE: *Cutting Edge CT: Low kVp, Low Dose, Dual Energy, and the Future*