

## Tomi Nano, PhD



### **Educational Background**

Medical Physics Residency, University of California, San Francisco, Department of Radiation Oncology (2019 - 2021)

Ph.D., Department of Medical Biophysics, Western University, Canada (2019)

MCl.Sc., Department of Medical Biophysics, Western University, Canada (2018)

B.Sc., Honors Physics and High-technology (Medical Physics), University of Windsor, Canada (2013)

### **Awards and Honors**

Natural Sciences and Engineering Research Council (NSERC) Canadian Graduate Scholarship PGS-D (2018-2019)

Department of Medical Biophysics Translational Research Award (2018)

Translational Breast Cancer Research Traineeship (TBCRU) with the Breast Cancer Society of Canada (2017)

Graduate Student Innovation Scholarship (GSIS) with Western University (2017)

Translational Breast Cancer Research Traineeship (TBCRU) with the Breast Cancer Society of Canada (2016)

Natural Sciences and Engineering Research Council (NSERC) Canadian Graduate Scholarship CGS-M (2015)

## **Publications**

Nano, TF. and Cunningham IA., **Signal-to-noise ratio criteria to suppress Gibbs ringing with the apodized-aperture x-ray detector design?**, Medical Physics, 2019 (in submission)

Nano, TF., Scott CC., Li Y., Con C., Karim KS., Cunningham IA., **Improved spec visualization with the apodized-aperture pixel (AAP) design with a Se/CMOS prototype?**, Journal of Medical Imaging, 2019 (in submission)

Nano, TF., Scott CC., Li Y., Con C., Karim KS., Cunningham IA., **Performance evaluation of a Se/CMOS prototype x-ray detector with the Apodized Aperture Pixel (AAP) design?**, Proc of SPIE Medical Imaging, 10948-16, 2019

Nano TF. and Cunningham IA., **Clinical Diagnostic and Interventional Radiology Physics with MATLAB: A Problem-solving Approach; Chapter 16: A toolkit to manipulate x-ray spectra in medical imaging**: Johan Sjoberg, CRC Press Taylor & Francis Group, 2019

Escartin T., Nano TF., and Cunningham IA., **Detective Quantum Efficiency Measurements in a Clinical Setting?**, Radiology, 2019 (in submission)

Nano TF., Karim, KS., Cunningham IA., **Impact of x-ray reabsorption and converter blur on MTF and DQE improvements using the apodized-aperture pixel (AAP) design of x-ray detectors?**, Physics in Medicine and Biology, 2019 (submitted)

Nano TF., Escartin T. and Cunningham IA., **Handbook of X-Ray Imaging: Physics and Technology; Chapter 1.19, Detector Design and Performance in X-Ray Imaging?**, Paolo Russo, CRC Press Taylor & Francis Group, 2017

Nano TF., Escartin T., Ismailova E., Karim KS., Lindstrom J., Kim HK., Cunningham IA., **MTF and DQE Enhancement using an apodized-aperture pixel (AAP) XRay Detector Design?**, Medical Physics, 44(7), 2017

Nano TF., Escartin T., Cunningham IA., **A novel x-ray detector design with higher DQE and reduced aliasing: Theoretical analysis of x-ray reabsorption in detector converter material?**, Proc. of SPIE: Medical Imaging, 9783, 2016

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