Ph.D.

John Treilhard: Curriculum Vitae

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Education:

PhD: Biomedical Engineering
Yale University: 2014 - 2019 (expected)
Currently a PhD candidate

Master of Science: Biomedical Engineering
Yale University: 2015 - 2016

Master of Science: Mathematics
Queen's University: 2012-2014
GPA: 4.23/4.3
Thesis: "On Malliavin Calculus and Concentration Inequalities"

Bachelor of Science in Engineering: Mathematics and Engineering (Computing and Communications focus)
Queen's University, 2008-2012
GPA: 4.19/4.3
Thesis: "Restoring MRI Images via Learned Image Priors"

Publications:

-**John Treilhard**, Susanne Smolka, James Duncan, et. al.: "Liver tissue classification in patients with hepato-cellular carcinoma using spherical harmonic context representation." [SUBMITTED TO INFORMATION PROCESSING IN MEDICAL IMAGING (IPMI) - 2017]

-Susanne Smolka, Wilfred Manzano, Julius Chapiro, **John Treilhard**, et. al. "Early imaging biomarkers for tumor response in patients with unresectable hepatocellular carcinoma (HCC) undergoing transarterial chemoembolization (TACE) with concurrent bevacizumab." [SUBMITTED TO EUROPEAN JOURNAL OF RADIOLOGY - 2016]

-**John Treilhard**, Abdol-Reza Mansouri. "Concentration inequalities via Malliavin calculus with applications." 2015. Electronic Communications in Probability.

-Serban Belinschi, Roland Speicher, **John Treilhard**, and Carlos Vargas. "Operator Valued Free Multiplicative Convolution: Analytic Subordination Theory and Applications to Random Matrix Theory." 2014. International Mathematics Research Notices.

-Rachid Deriche, **John Treilhard**. "Using Radial NMR Profiles to Characterize Pore Size Distributions." 2012. SPIE Medical Imaging Proceedings.

Patents: