

## **Francis Esmonde-White**

Francis Esmonde-White received a B.Sc. in Chemistry from Concordia University, Montreal in 2002 and a Ph.D. in Analytical Chemistry from McGill University in 2008. Francis was awarded a Canadian National Science and Engineering Council PhD grant in 2004 for his research. His Ph.D. thesis research focused on improving instrumentation and data analysis of diffuse reflectance spectroscopy for turbid media models of biological tissue. Francis has received several awards for presenting his research, including student poster awards from the Society of Applied Spectroscopy and FACSS. He is currently serving as a post-doctoral research fellow in Michael Morris's laboratory at the University of Michigan. Francis is developing novel approaches for improving transcutaneous Raman spectroscopy of bone, through the development of improved physical standards for simulating and modeling tissue, development of improved spectral data preprocessing methods, and development of new optical probes for specialized tissue geometries. His research results have been published in peer-reviewed journals including Applied Spectroscopy and Vibrational Spectroscopy. He has presented at regional and national meetings, including FACSS meetings since 2005. This year Francis has transitioned from a student member into a full member, and he will be organizing a Biomedical Raman session at FACSS 2009. Francis is also a member of several professional societies, including the Coblenz Society, the Society for Applied Spectroscopy and the Society of Photo-optical Instrumentation Engineers.