CBCT to MR registration using point set registration methods. John Treilhard, Susanne Smolka, MingDe Lin, Jeff Geschwind, James Duncan. [SUBMITTED TO USPTO - 2016]

Work Experience:

General:

-Graduate Writing Fellow/Advisor at the Yale University Graduate Writing Center (December 2016 - present)

Internships:

-Research Associate at *Department of Mathematics at the University of Saarland, Germany*, supervised by Prof. Roland Speicher and Prof. Serban Belinschi (May-September, 2012)

-Research Associate at *French National Institute for Research in Computer Science and Control in Nice, France*, supervised by Dr. Rachid Deriche (May-September, 2011)

-Research Associate at *Department of Mathematics and Statistics at Queen's University*, supervised by Prof. Abdol-Reza Mansouri (May-September, 2010)

Teaching/Marking:

Teaching Fellow, BENG 249: Intro to Biomedical Computation. Yale University, January 2016 - April 2016

Teaching Fellow, co-instructing the course: MATH 121 Differential and Integral Calculus. Queen's University, June 2014 - August 2014.

Teaching Fellow, instructing the course: MTHE 235 Differential Equations for Electrical Engineers. Queen's University, November 2013 - December 2013.

Scholarships and Awards:

Keyser Prize for *best undergraduate thesis project* in Mathematics and Engineering, for a thesis called: "Restoring MRI Images Using Learned Image Priors."

2014:
Alexander Graham Bell CGS-D (NSERC) - $105,000 (over three years)
-> Declined, so that I could accept the NSERC PGS-D, valued at $63,000 (over three years), which I could hold at Yale University.

2013:
Alexander Graham Bell Graduate Scholarship (NSERC): $17,500

2012:
Ontario Graduate Scholarship: $15,000

2008-2012:
Awarded a variety of merit-based scholarships valued at $60,000+

Professional Activities:
Reviewer for the journal: Medical Image Analysis (>5 papers reviewed)