



# Member Profile

## Dr. Angèle Hamel, Affiliated Member

Dr. Angèle Hamel, affiliated member of the Institute advances research within three priority research themes at the MS2Discovery Institute. These include Complex Systems, Networks, Information Theory and Algorithms (Tecton 4), Operations Research and Decision Science (Tecton 6) and Human Interface Technology and Design (Tecton 10).

She joined the Institute in 2014. In 2000, she came to Wilfrid Laurier University where she is now a full professor for the Department of Physics and Computer Science. In 2014, she was also cross - appointed to the Department of Mathematics. She worked as a postdoc for both the University of Canterbury in New Zealand and then the University of Southampton in the United Kingdom. She earned her MMath in Pure Mathematics and her PhD in Combinatorics and Optimization from the University of Waterloo. Her area of expertise lies in combinatorics, also known as discrete mathematics, which examines the discrete structures like networks, sequences of symbols and permutations.

Dr. Hamel's main focus is algebraic combinatorics. This is an application of powerful techniques from algebra to problems in combinatorics as well as exploits combinatorial insight to discover new results in algebra. Dr. Hamel welcomes inquiries from potential undergraduate and graduate students. She has research assistantship opportunities available for students interested in optimization, graph theory, combinatorics, privacy, cryptography and algorithms. She enjoys supervising graduate students and welcomes students interested in combinatorics and discrete mathematics topics like enumeration, graph theory and optimization.

