



Member Profile

Dr. Ross Cressman, Affiliated Member

Dr. Ross Cressman, affiliated member of the Institute, advances research within three priority research themes: Life Sciences, Biotechnology and Bioinformatics (Tecton 2), Ecology, Climate and Environmental Sciences (Tecton 5) and Operations Research and Decision Science (Tecton 6). Dr. Cressman joined the MS 2Discovery Institute in 2014.

Currently, he is a Professor at the Department of Mathematics at Wilfrid Laurier University. He is also Chair of the Department. Before arriving at Laurier, he was a National Research Council Postdoctoral fellow at Queen's University and then an Assistant Professor in the Department of Mathematics at Memorial University of Newfoundland. Dr. Cressman received his PhD in Mathematics from the University of British Columbia and his BSc in Mathematics and Physics from the University of Toronto.

Dr. Cressman's areas of expertise lie in game theory, dynamical systems, rational behaviour and mathematical biology. His research emphasizes the theory of evolutionary games and its application to models in biology and economics.

Currently, he is examining how evolutionary dynamics can be applied to extensive form games, to coevolutionary models in biology, to games with continuous strategy space and to models of habitat selection. His research also involves game experiments, especially the influence of punishment and/or rewards in cooperation in social dilemmas. Dr Cressman welcomes inquiries from potential graduate students.

He is willing to supervise students in the areas of game theory and dynamical systems. In the past, he has supervised many undergraduate and graduate students as well as a few postdoctoral researchers in projects in applied mathematics.

