CHRISTOPHER DUFFY, University of Saskatchewan
The Oriented Chromatic Polynomial

One can define a k-colouring of an oriented graph to be a homomorphism to a tournament on k vertices. This definition implies a definition of the oriented chromatic polynomial. In this talk we examine the behaviour of oriented chromatic polynomial. We classify chromatically equivalent pairs of graphs and oriented graphs. This leads to a new question of of chromatic equivalence — can one find a graph Γ and an oriented graph G so that G is not an orientation of Γ, yet they have the same chromatic polynomial?

Joint work with Danielle Cox (MSVU)