NITheCS

National Institute for
Theoretical and Computational Sciences

NITheCS COLLOQUIUM
The Mathematics of Love
Dr Pietro Landi (Stellenbosch University)

Attend in person* or online
Neelsie Cinema, Stellenbosch University

Monday, 27 March 2023 | 16h00 – 17h00 SAST

--- Cheese and wine will be served after the event ---

ABSTRACT

Can we use mathematics do describe the dynamics of feelings? In this seminar I will show how to use Ordinary Differential Equations (ODEs) to model love stories, with examples from poetry, literature, movies, and real life (Gone with the Wind, Beauty and the Beast, Pride and Prejudice, Cyrano de Bergerac, Laura and Francesco Petrarca, and Kathe, Jules and Jim).
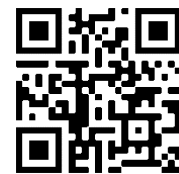
BIOGRAPHY

Pietro graduated from Polytechnic University of Milan, Italy in 2014 with a PhD thesis on mathematical modelling of ecological and evolutionary dynamics using the approach of Adaptive Dynamics and bifurcation analysis. He has been a postdoctoral fellow for five years in the BioMathematics group of the Department of Mathematical Sciences of Stellenbosch University, working on modelling ecological and evolutionary dynamics, with particular focus on biological invasions in collaboration with the Centre for Invasion Biology, and for one year at the South African Centre for Epidemiological Modelling and Analysis (SACEMA) working on modelling metabolic networks. He is now a Lecturer in Applied Mathematics at Stellenbosch University. His main research interest and expertise lies in mathematical modelling of complex nonlinear dynamical systems in disparate fields of science.

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