

Program: 7th Swedish Mathematical Biology meeting, Uppsala

Thursday December 3, 2015

9:25-9:30	<i>Meeting opening</i>	
9:30-9:50	Måns Henningson	Stochastic modeling of firing neurons
9:50-10:10	Alexander Medvedev	Modeling of endocrine regulation by impulsive Goodwin oscillator
10:10-10:30	Magnus Lindh	Evolution and optimization of tree crown shape
10:30-11:00	<i>Coffee break and POSTERS</i>	
11:00-11:20	Tom Britton	Statistical challenges when analysing emerging epidemic outbreaks
11:20-11:40	KaYin Leung	Dangerous connections: on binding site models of infectious disease dynamics
11:40-12:00	Federica Giardina	HIV epidemic in Sweden: can we infer the structure of contact networks from pathogen phylogenies?
12:00-12:20	Tom Lindström	Ensemble modeling for epidemiology
12:20-13:50	<i>Lunch break and POSTERS</i>	
13:50-14:40	André de Roos	Mini Course 1 (part 1) Physiologically structured population models: from numerical techniques to ecological insight
14:40-14:50	<i>short break</i>	
14:50-15:40	André de Roos	Mini Course 1 (part 2) Physiologically structured population models: from numerical techniques to ecological insight
15:40-16:10	<i>Coffee break and POSTERS</i>	
16:10-16:30	Sylvain Glémin	Limits to adaptation in partially selfing species
16:30-16:50	Lucie Gattepaille	Inferring past effective population size from distributions of coalescent times
16:50-17:10	Ingemar Kaj	Non-equilibrium allele frequency spectrum using Poisson random fields
17:10-17:30	Simone Immler	Evolution of haploid selection in predominantly diploid organisms

18:30 *conference dinner*

Friday December 4, 2015

9:00-9:50	Laurent Lehmann	Mini Course 2 (part 1) Invasion fitness and inclusive fitness in heterogeneous subdivided populations
9:50-10:00	<i>short break</i>	
10:00-10:50	Laurent Lehmann	Mini Course 2 (part 2) Invasion fitness and inclusive fitness in heterogeneous subdivided populations
10:50-11:20	<i>Coffee break and POSTERS</i>	
11:20-11:40	Peter Jagers	Stochastic populations in habitats with finite carrying capacities
11:40-12:00	Sonja Radosavljevic	On the boundaries of population growth in variable environments
12:00-12:20	Francesca Scarabel	A new systematic approach for numerical bifurcation analysis of nonlinear delay equations
12:20-13:50	<i>Lunch break and POSTERS</i>	
13:50-14:10	Anna Eklöf	The phylogenetic component of food web structure and intervality
14:10-14:30	Daisuke Takahashi	Dynamic and drastic rearrangements of evolutionarily-constructed food webs
14:30-14:50	Sara Gudmundson	Environmental variability uncovers disruptive effects of species' interactions on population dynamics
14:50-15:10	Örjan Östman	Stochastic vs deterministic simulation of pelagic food web dynamics: implications for regime shifts
15:10-15:40	<i>Coffee break and POSTERS</i>	
15:40-16:00	Line Le Goff	Ants and constrained reinforced random walks on graphs
16:00-16:20	Arianna Bottinelli	Learning from ants how to build balanced transport networks
16:20	End of meeting	

Posters

Alex Szorkovszky	All theory and no data makes evolutionary game theory
Hongli Zeng	Longitudinal support vector machine (LSVM) for artificial selection
James Rodger	Evolution of self-fertilisation and high dispersal in metapopulations
Linnéa Gyllingberg	The evolution of reproductive helping through resource competition
Yu Liu	Evolution in a "number soup"