UNIVERSITY OF LIVERPOOL

2nd Joint Liverpool-Glasgow Maths Healthcare Centre Meeting

Thursday 30th August 2018

SIRE Seminar Room

Stephenson Institute of Renewable Energy

12.00-12.50	**Arrival and Lunch**	
12.50-1.10	Opening Address ***Rachel Bearon (Liverpool Centre)*** ***Xiaoyu Luo (Glasgow Centre) Executive Director*** ***Ke Chen (Liverpool Centre Director***	
Session 1 *Chairperson: Rachel Bearon*		
1.10-1.30	Modelling Dynamic Response of Stented Blood Vessels	**Alexander Movchan (Liverpool Centre)**
1.30-1.50	Effect of Geometry Representation on Parameter Inference in Mathematical Models on Left Ventricle	**Alan Lazarus (Glasgow Centre)**
1.50-2.10	Issues on Image-based Ventricular Geometry Reconstruction	**Hao Gao (Glasgow Centre)**
2.10-2.30	Accelerating the Convergence of Optimisation Procedures for Parameter Estimation in Soft Tissue Mechanical Models via Bayesian Optimisation	**Agnieszka Borowska (Glasgow Centre)**
2.30-2.50	Incorporating Data into Disease Dynamics	**Anne Jones (Liverpool Centre)**
2.50-3.10	Systems Toxicology Approach to Identifying Paracetamol overdose	**Chantelle Mason (LJMU)**
3.10-3.40	**Poster Session with Refreshments**	
Session 2 *Chairperson: Nick Hill*		
3.40-4.00	Multivariate Longitudinal Modelling for Clinical Prediction	**Marta Garcia Finana (Liverpool Centre)**
4.00-4.20	Modelling Insulin effects on Cell Cycle and Bio Energetics	**Mirela Domijan (Liverpool Centre)**
4.20-4.40	Modelling Dynamics of Microbial Communities Growing in Mixed Environment	**Nouf Alghamdi (Liverpool Centre)**
4.40-5.20	Facilitated discussion on future directions	**Rachel Bearon (Liverpool Centre)**
5.20-5.30	Closing comments	**Ke Chen (Liverpool Centre)**
6.30	**Dinner**	

Posters

- Multiphase MCMC Sampling for Parameter Inference in Non-linier Ordinary Differential equations **Alan Lazarus (Glasgow Centre)**
- A Mathematical Model for Blood Flow in the Coronary Circulation **Jay Mackenzie (Glasgow Centre)**
- Cell motility & biofilm formation **Marianne Scott (Liverpool Centre)**
- The Generalised Structure Tensor approach and its application to constitutive modelling of passive myocardium **Andrey Melnik (Glasgow Centre)**
- Improved Variational Models for Multi-Modality Image Registration **Anis Theljani (Liverpool Centre)**