



Training day for PhD students and RAs

Tuesday, 12 December 2017

Organisers:

Dirk Husmeier, Robert Insall, Ray Ogden, Godfrey Smith, Huabing Yin

Registration, coffee and putting up posters

(9:00-9:30)

Part 1: Consolidation of essential background knowledge

(9:30-12:00)

To initiate successful interdisciplinary research projects, it is helpful if all PhD students and RAs have sufficient background knowledge of the essential methodological concepts relevant to Softmech, so as to be able to effectively collaborate and work as a research team. For that reason, the training day starts with a series of five 30-minute lectures on the following topics (tentative suggestions; please revise as you see fit):

- **Robert Insall.** Cell migration in response to self-generated cues: hypotheses, mathematical modelling, and experimental verification.
- **Ray Ogden.** Structure-based finite strain modelling of soft tissues.
- **Dirk Husmeier.** Statistical inference in complex models of coordinated cell movement and soft-tissue mechanics.
- **Huabing Yin.** Cell mechanics and cellular microenvironments: devices for diagnostics, analysis, and engineering.
- **Godfrey Smith.** Optical techniques for measuring electrical activities in the heart.

Part 2: “Speed dating”

(12:00 -13:00)

To facilitate collaborations, participants are divided into two groups. Each member of group 1 will talk to each member of group 2 for about 5-10 minutes (depending on the number of participants who have signed up for the meeting). In the discussions, both partners describe to each other the main objectives of their research and try to identify a potential research direction that would benefit from them joining forces and combining their expertise.

Lunch break

(13:00-14:00)

Part 3: Short course addressing specific training needs identified by the RAs/PhD students

(14:00-15:30)

Timothy Storer from Computing Science has kindly agreed to give a lecture on version control, bit bucket and Git. Please bring your own laptop.

Part 4: Poster session (with coffee and light refreshments)

(15:30-17:00)

This is an opportunity to present your work and get feedback in an informal and relaxed environment. Please indicate your intention to present a poster by 30 November, sending an email to dirk.husmeier@glasgow.ac.uk. As an additional incentive, there will be a prize for the best poster.

Part 5: Closing session and prize award

(17:00-17:30)