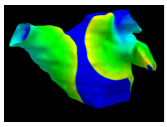
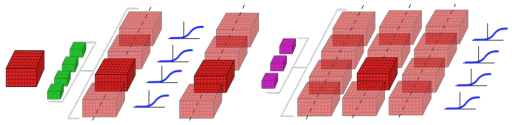

Imperial College London

Postdoctoral Opportunities

ElectroCardioMaths & BICV Group

March, 2017

We are seeking to attract post-doctoral researchers and doctoral candidates in the area of deep learning applied to a variety of challenges in biomedical engineering. These challenges include not only the application of deep networks to visual data, but also to the modeling of physical processes.

In short, if you are highly motivated by research into applied computation, or computational inference, we'd like to speak with you. To figure out whether you might be a fit to our group, take a simple self-test; have a look at the equations below:

$$\frac{\partial u}{\partial t} = \alpha \nabla \cdot \mathbf{D} \nabla u + f(u, \mathbf{v})$$
$$\frac{\mathrm{d}\mathbf{v}}{\mathrm{d}t} = \mathbf{g}(u, \mathbf{v})$$

or, perhaps,

$$\max_{\pi} \mathbb{E}\left[\sum_{k=0}^{\infty} \gamma^k r_{t+k} | s_t = s, a_t = a, \pi\right]$$

If at least one of these expressions makes sense to you *and*, you have familiarity with the methods or computational techniques that they represent, or could be solved by, *and* you want to be part of a team aiming to:

- contribute to solving some of the toughest engineering challenges on the planet;
- make machine learning work for the benefit of healthcare;
- advance the approaches, training and applications of deep computational architectures;

then drop a note for an informal chat to either Chris (c.cantwell@imperial.ac.uk) or Anil (a.bharath@imperial.ac.uk) to discuss whether and how you can join our efforts. We look forward to hearing from you!