

**Biographical Sketch:**

**ALBERTO FIGUEROA** received his PhD in Mechanical Engineering from Stanford University in 2006. He is currently an Associate Professor in the Department of Biomedical Engineering at King's College London. His doctoral work was focused on developing techniques for fluid-structure interaction and multi-scale modeling for subject-specific cardiovascular simulations.

Dr. Figueroa's current research interests include:

- Methods to predict the growth & remodeling of blood vessels in response to changes in their biomechanical environment.
- Methods to predict the short-term response (auto-regulation) of the arterial system in response to changes in pressure and flow.
- Computational tools to evaluate and predict the performance of abdominal and thoracic endografts.
- Pathophysiology and mechano-biology of arterial hypertension.

Dr. Figueroa has published extensively in the fields of Biomedical Engineering, Applied Mechanics, Life Sciences, and Vascular and Endovascular Surgery. He is an Editor of the Journal of Endovascular Therapy, and Guest Editor of the International Journal Numerical Methods in Biomedical Engineering. More information on Dr. Figueroa can be found at <http://www.isd.kcl.ac.uk/cafa>