

Final Report

Name of BritInn Fellow: Fernando Bello

Home Department: Surgery & Cancer

Home University: Imperial College London

Guest Department: Computer Science

Guest University: University of Innsbruck

From: June 3, 2019 **Until:** June 7, 2019

Title of the Research Project: Computer Haptics in Surgical Simulation

Report about visit and future plans (max. 200 words, English):

During my BritInn visit, I had the opportunity to meet and interact with students and researchers in the Interactive Graphics and Simulation group at the University of Innsbruck. Projects and research topics in Haptics, Visualisation, Augmented & Virtual Reality, and Image Guided Surgery were explained and demonstrated; this included hands-on demonstration of haptics hardware. In addition, I also had the opportunity to briefly visit the Voxelmaster 4D-visualisation group at the Innsbruck Medical University and the Mechatronics and Smart Technologies group at the Management Centre Innsbruck.

A guest lecture entitled “Simulation of Physical Examinations – Challenges and Opportunities” was organised for June 3 afternoon, allowing me to present our recent related work. The lecture was well received with about 30 attendees and lead to subsequent conversations on relevant aspects of work during the week.

Sufficient time was allocated for discussions with Prof. Matthias Harders regarding different possibilities for collaboration, including joint master projects, PhD and postdoctoral short research visits, as well as joint funding proposals, in particular the recently published Horizon 2020 ICT call (ICT-55-2020).

Following my visit, Prof. Harders had the opportunity to visit my lab and research group at Imperial College. We are currently iterating details to shape a concrete joint H2020 proposal. Finally, we also used the visit for discussing plans to revive the surgical simulation conference series ISBMS.

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