

Postdoctoral Position, Human-Computer Interaction and Computer Music

Earliest Starting date: May, 2018

ONE postdoctoral position is available at the Music X Lab in the School of Computer Science and Engineering at New York University, Shanghai Campus, China. The project is haptic guidance for flute tutoring, which aims to develop a novel haptic approach to help people learn flute (instruments in general) much more efficient than traditional methods. The project is a collaboration between New York University, Dartmouth College, and Carnegie Mellon University. It includes 3D modeling, mechanical engineering, user study design, and computer music algorithm design for instrument tutoring. The position will be one year with possibility of an extension pending performance and funding.

The post-doc will be responsible to develop new haptic hardware and design haptic guidance techniques to effectively lead human motions via mechanical control. (The first prototype has just been accepted by a top computer music conference NIME; the arXiv version is at <https://arxiv.org/abs/1803.06625>.)

The post-doc will also coordinate the work of graduate and undergraduate team members. A strong background is required in human-computer interaction. The candidate should also be familiar with rapid prototyping tools, such as 3d-printing, fabrication, and Arduino. Strong experiences are preferred in either mechanical engineering, circuit design, or computer music.

Application Instructions

Applications should be sent by email (to Dr. Gus Xia, gxia@nyu.edu) with subject "Postdoc at Music X Lab_YOURNAME".

The email should include:

1. A comprehensive CV
2. Expected date of availability
3. Contact Information for at least two references.