

**Faculty Name:**

Xia Zhou

**Faculty Email:**

xia@cs.columbia.edu

**Lab:**

Mobile X Laboratory

**Project Title:**

Physiological Sensing with Fabric Sensors

**Description:**

We are looking for a highly motivated student interested in developing textile/fabric sensors for collecting user's physiological signals such as electromyography and electrocardiogram signals. Fabrics as sensors are lightweight, flexible, and easy to wear. It can be seamlessly integrated into various wearable systems such as virtual reality headsets or rehabilitation devices. The student intern will work with PhD student and be involved in (1) sensor fabrication and design, and (2) analysis of collected neurosignals using signal processing techniques and/or machine learning models.

**Location of Research:**

On Site

**# of hrs/week:**

30

**Department/Program:**

Computer Science

**Eligibility:**

BS, Second Year, BS, Third Year, BS, Fourth Year, MS

**To apply, please contact:**

Xia Zhou, xia@cs.columbia.edu