

## a Computer Human Interface for the Live Labelling of Emotional Responses

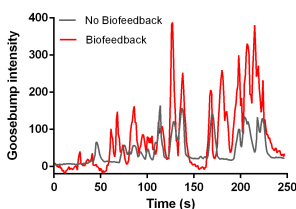
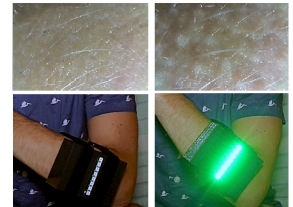
Peak moments of emotion, especially in response to **music**, can be manifested as chills and goosebumps

We want to **detect, visualise and share** these peak moments of **emotion** in **real-life environments**



The CHILLER is a wearable based on the Raspberry Pi architecture of minicomputers and a camera capable of detecting peak moments of emotion in real time by using an open source algorithm for goosebumps detection (Benedek et al., 2010).

A moment of skin rest (left column) and of a peak moment of pleasure that was accompanied by goosebumps (right column). The LED strip provides biofeedback when goosebumps are detected.



The intensity of the goosebumps for the same song with or without biofeedback.

### Potential Applications:

- Enhancing the musical experience in concerts by providing biofeedback to the audience and to the performers
- Encouraging younger students to be interested in STEM
- Studying the neuro-cognitive mechanisms behind emotion and music-induced pleasure in real-life environments

## Get a glimpse of the CHILLER:

[Music](#)[Film](#)