

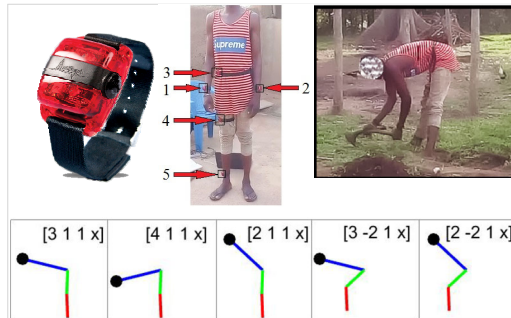
## Automated human activity recognition from accelerometer data in agricultural settings

### Summary

We collected accelerometry data from 5 households in Wa, Ghana, during typical livelihood activities.

We have implemented a posture-based classifier and applied it to the Ghana data.

The classifier captures the nature of the livelihood activities well, and can discriminate between activities, and between males and females performing the same activity.



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### Key findings/learning/outcomes

Developed data collection and researcher training protocols for collecting accelerometer data with video groundtruth.

Implemented a posture-based classifier and demonstrated its ability to discriminate between activities and between genders performing the same activities.

Identified opportunities for further study of body movement and posture in rural livelihood activities, and for more objective/accurate methods of capturing time-use.

### Where?

Wa, Ghana

### Project partners/funders

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