## CACOM UPDATE

Aydin & Oussama

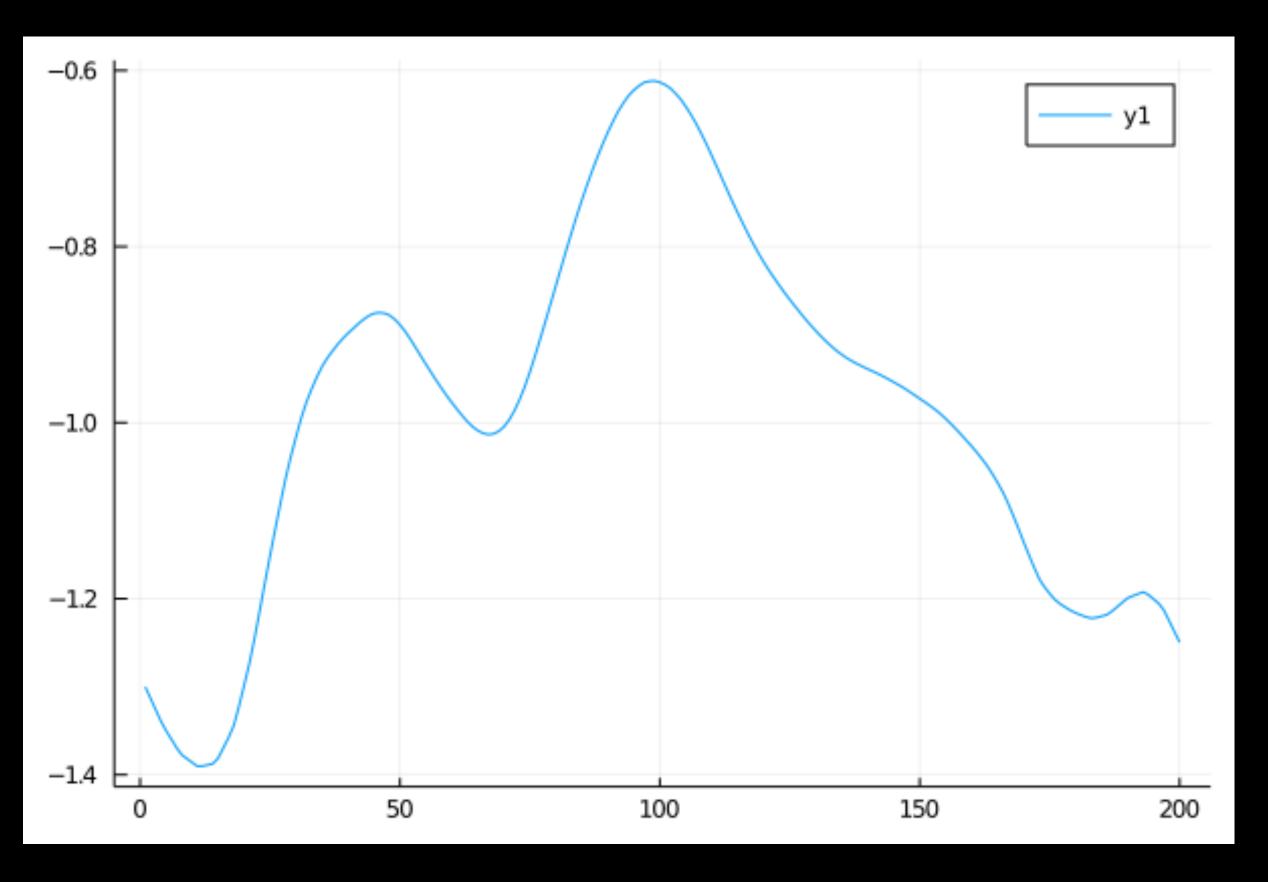
#### Normstep algorithm by Gerhard Aigner @ Trium

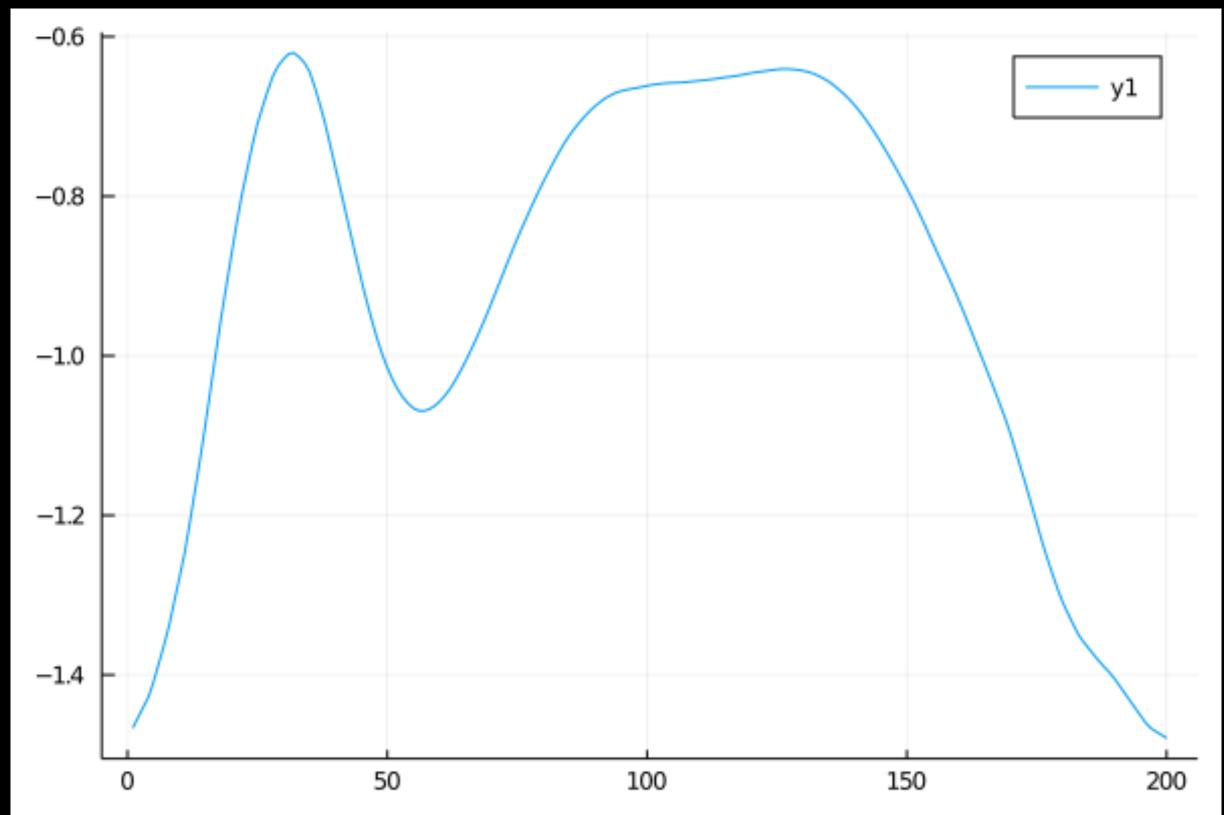
- Load actibelt file and analyse steps -> detected step time
- Grouping consecutive steps
- Filtering the largest group
- Normalizing multiple steps

#### Dataset

- 2 measurements
- Aydin 15 min. Duration -> after grouping and filtering for largest group -> 1398 distinct steps
- Oussama 15 min. Duration -> after grouping and filtering for largest group -> 402 distinct steps

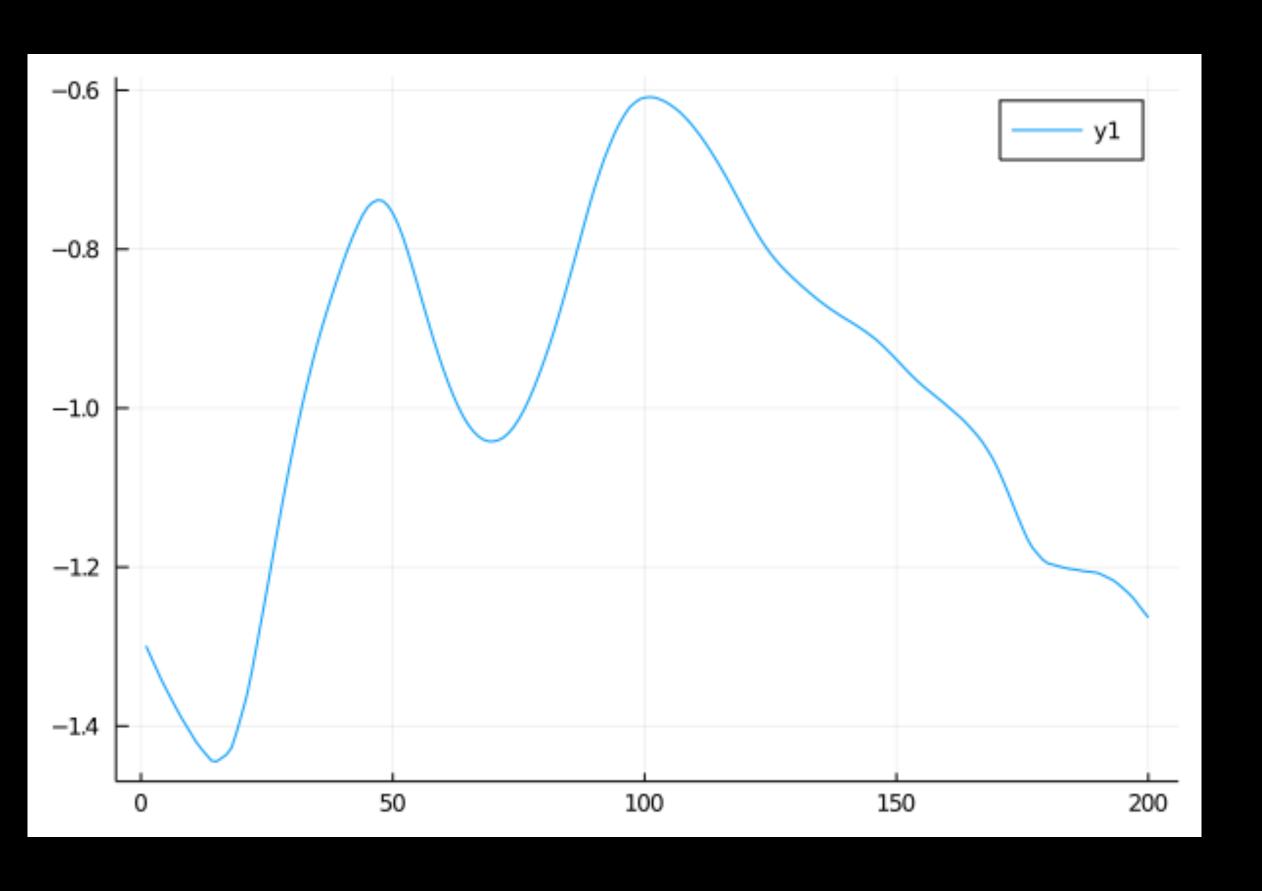
#### X-acceleration - left step

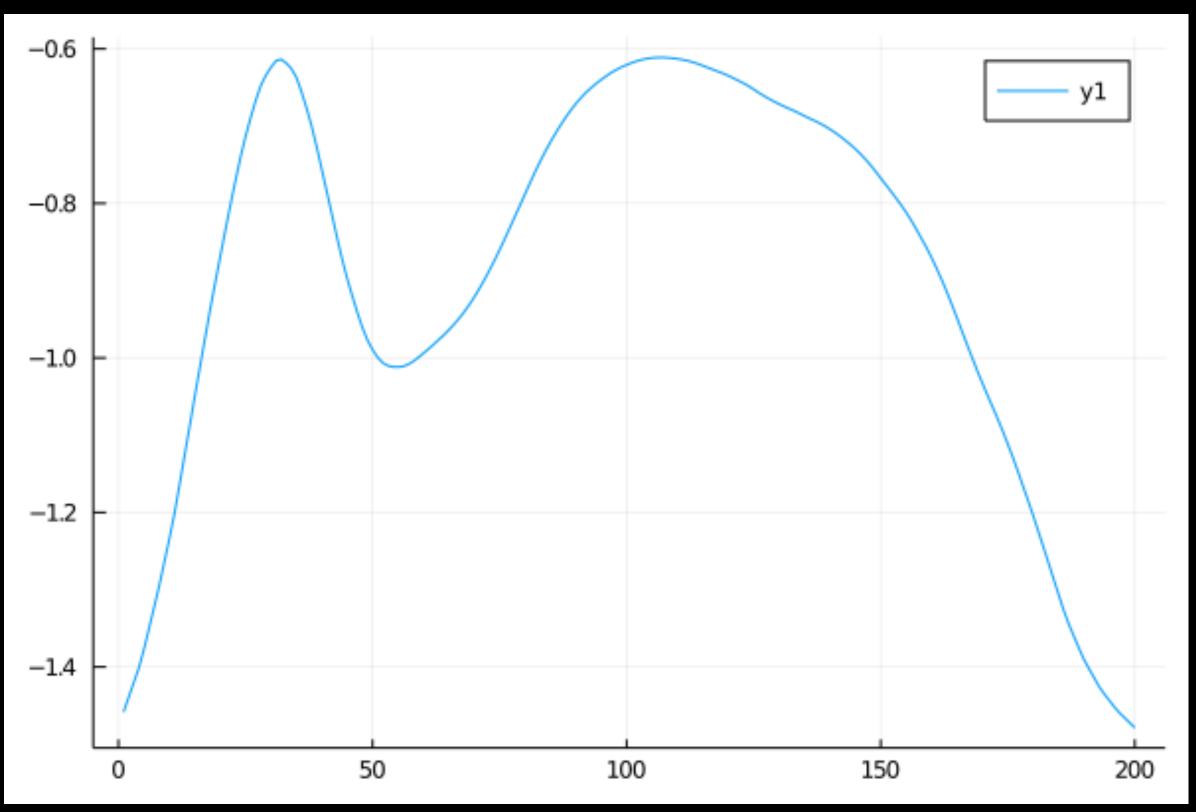




Aydin

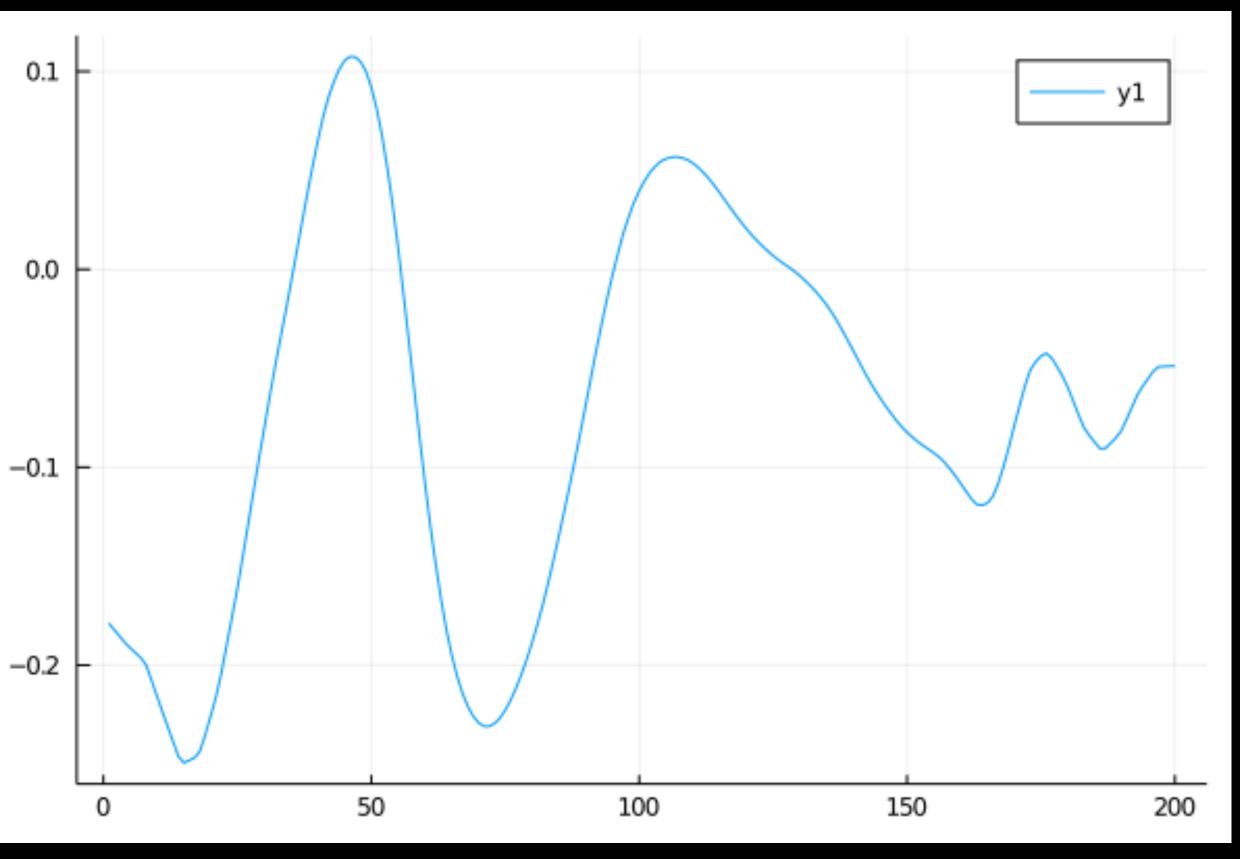
#### X-acceleration - right step

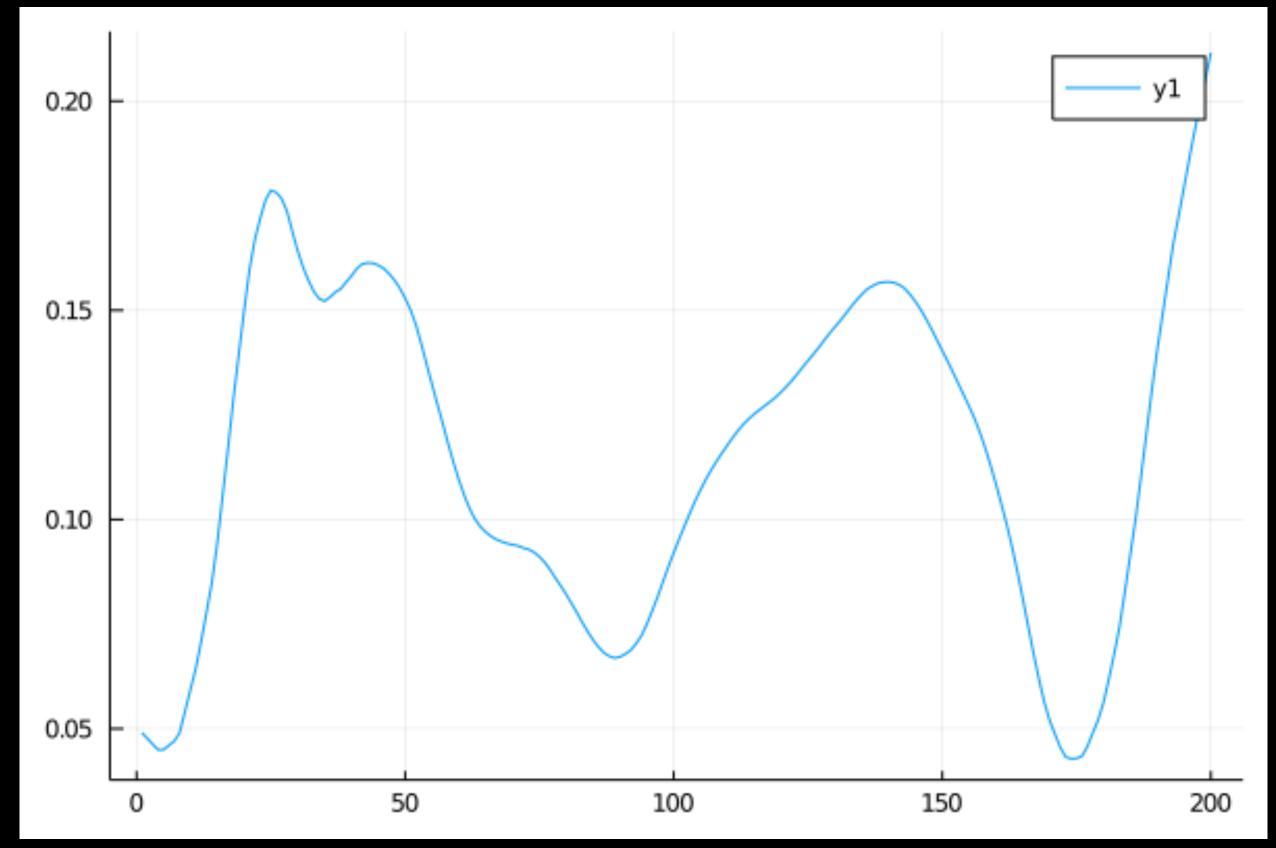




Aydin

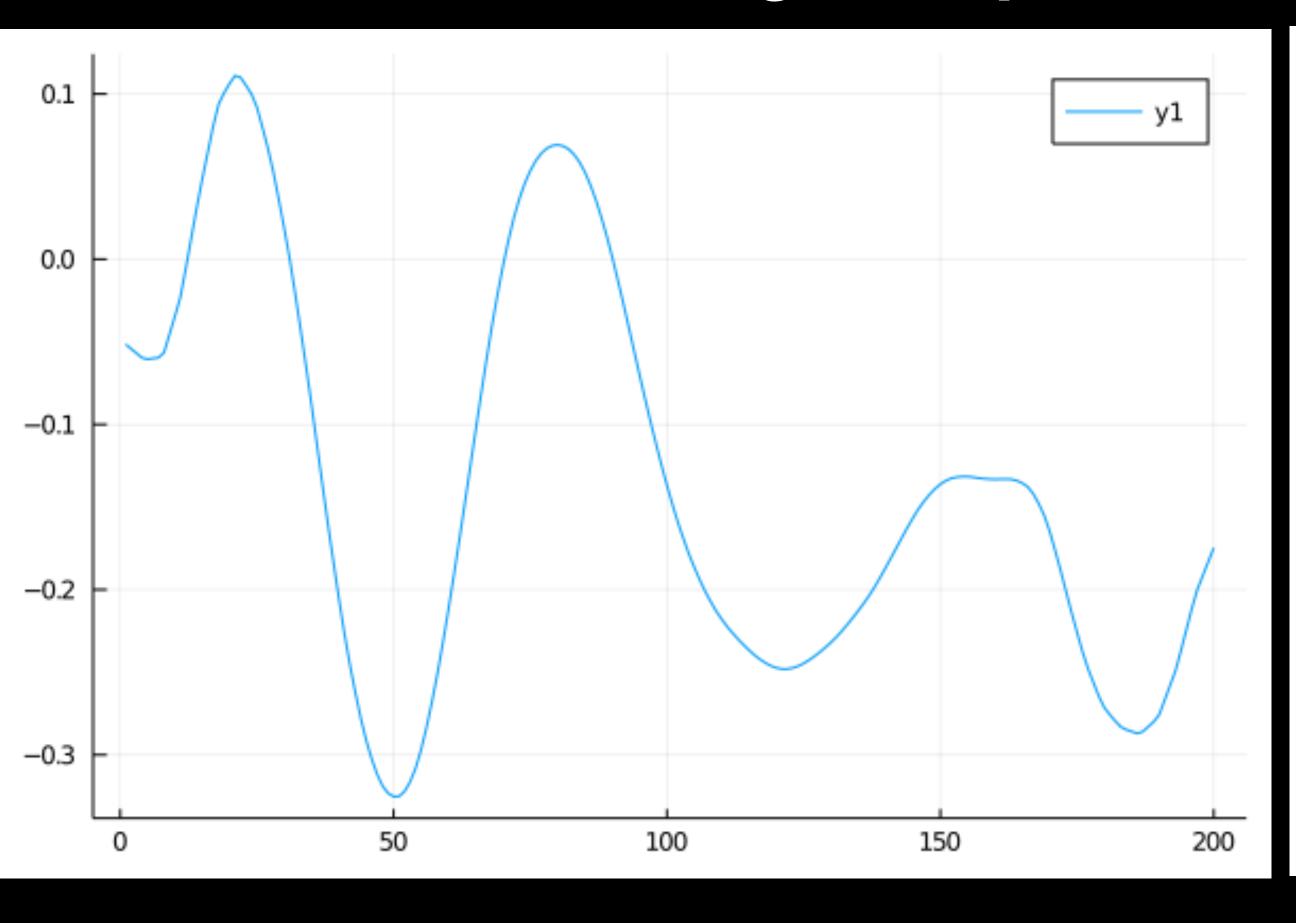
#### Y-acceleration - left step

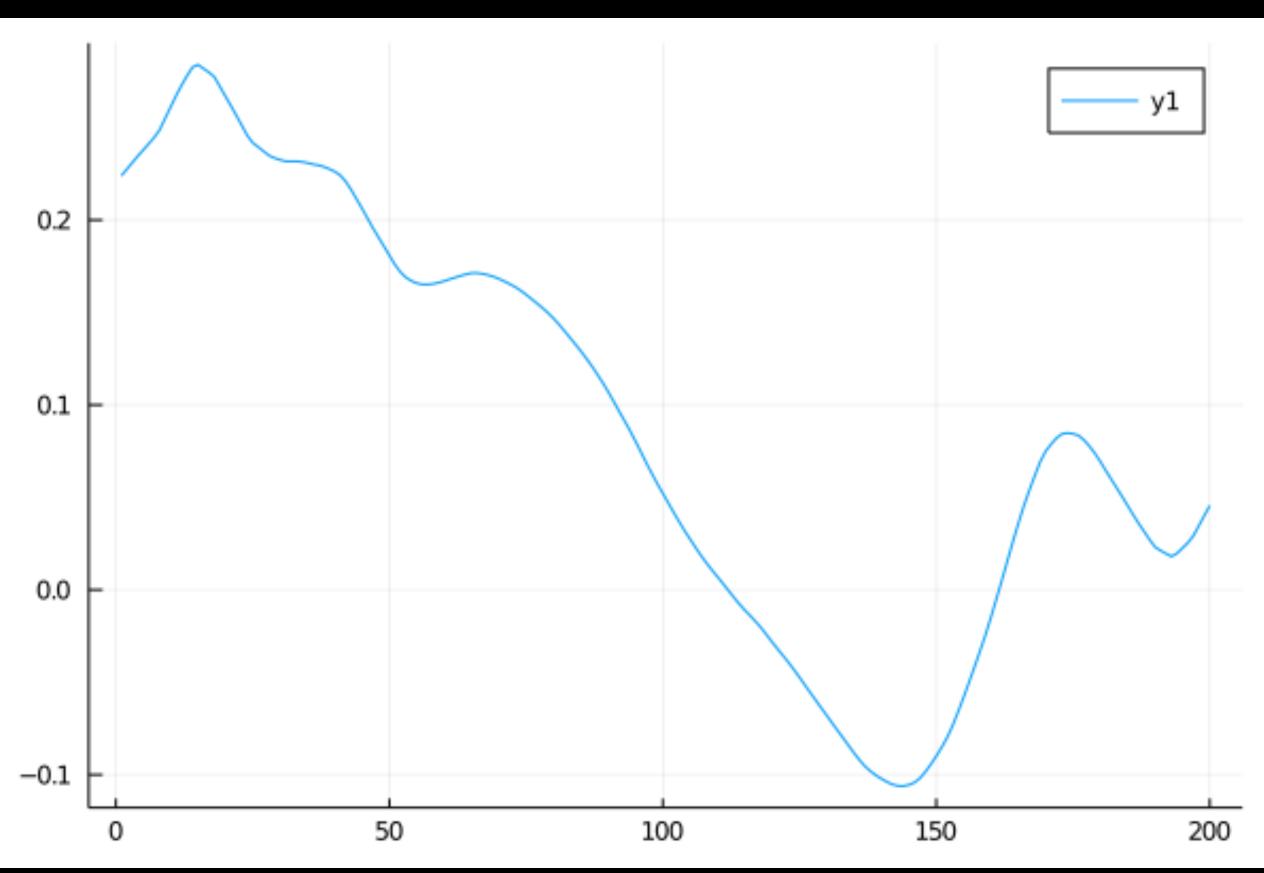




Aydin

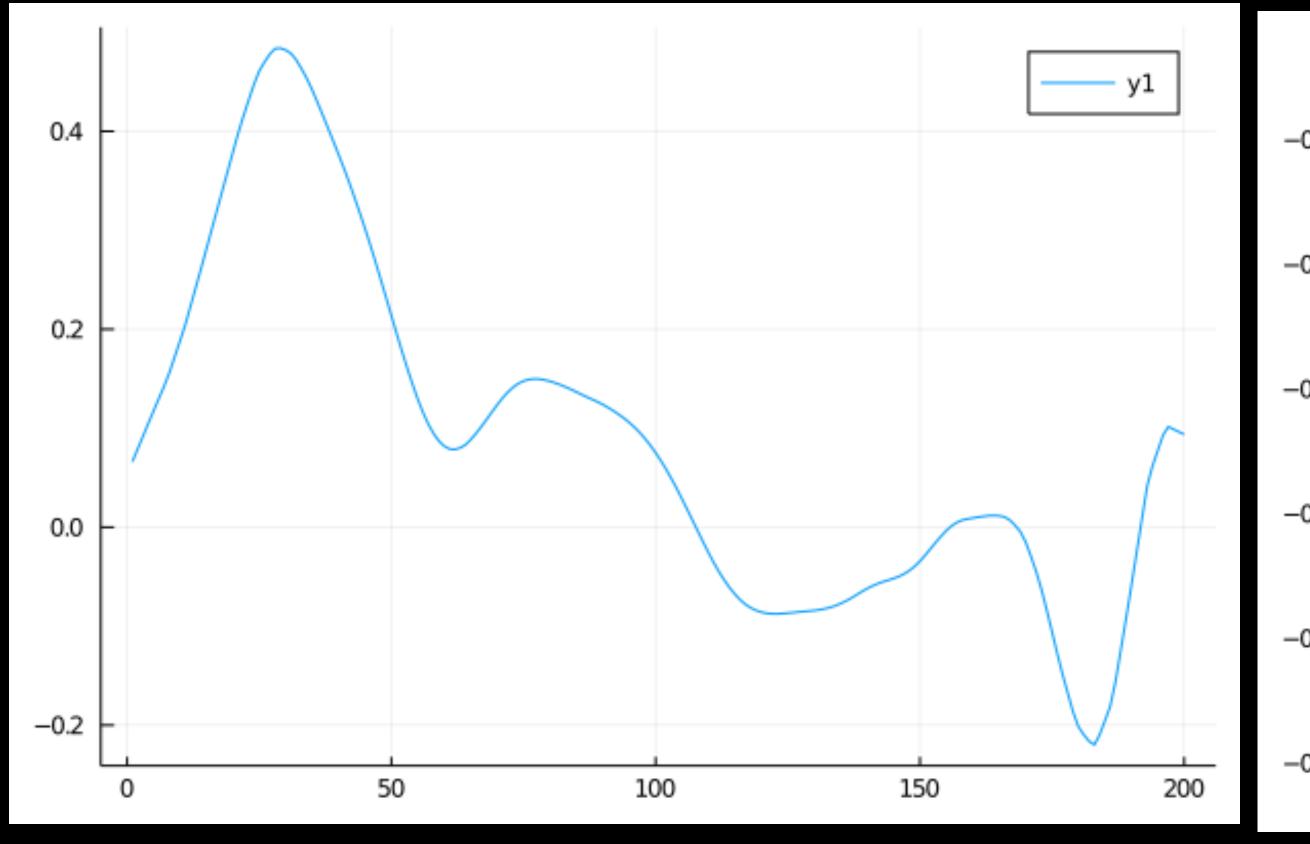
Y-acceleration - right step

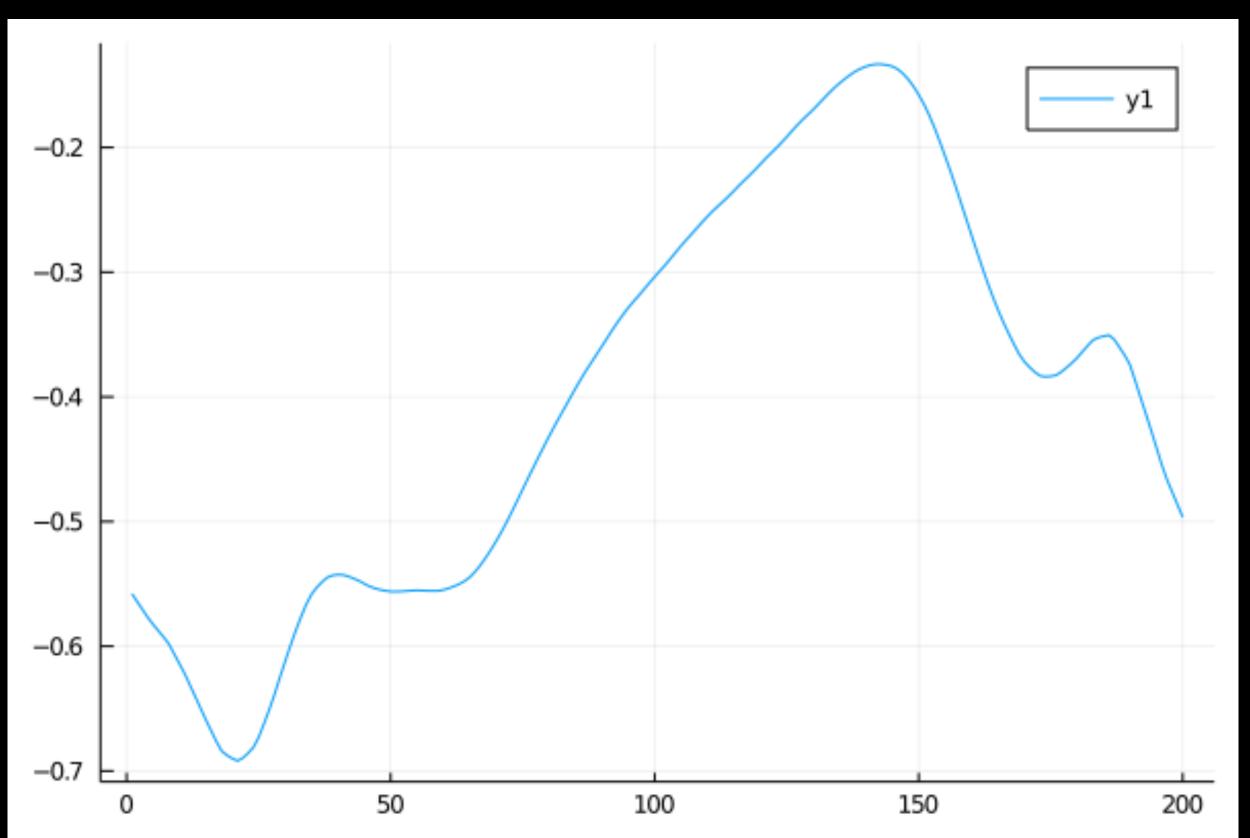




Aydin

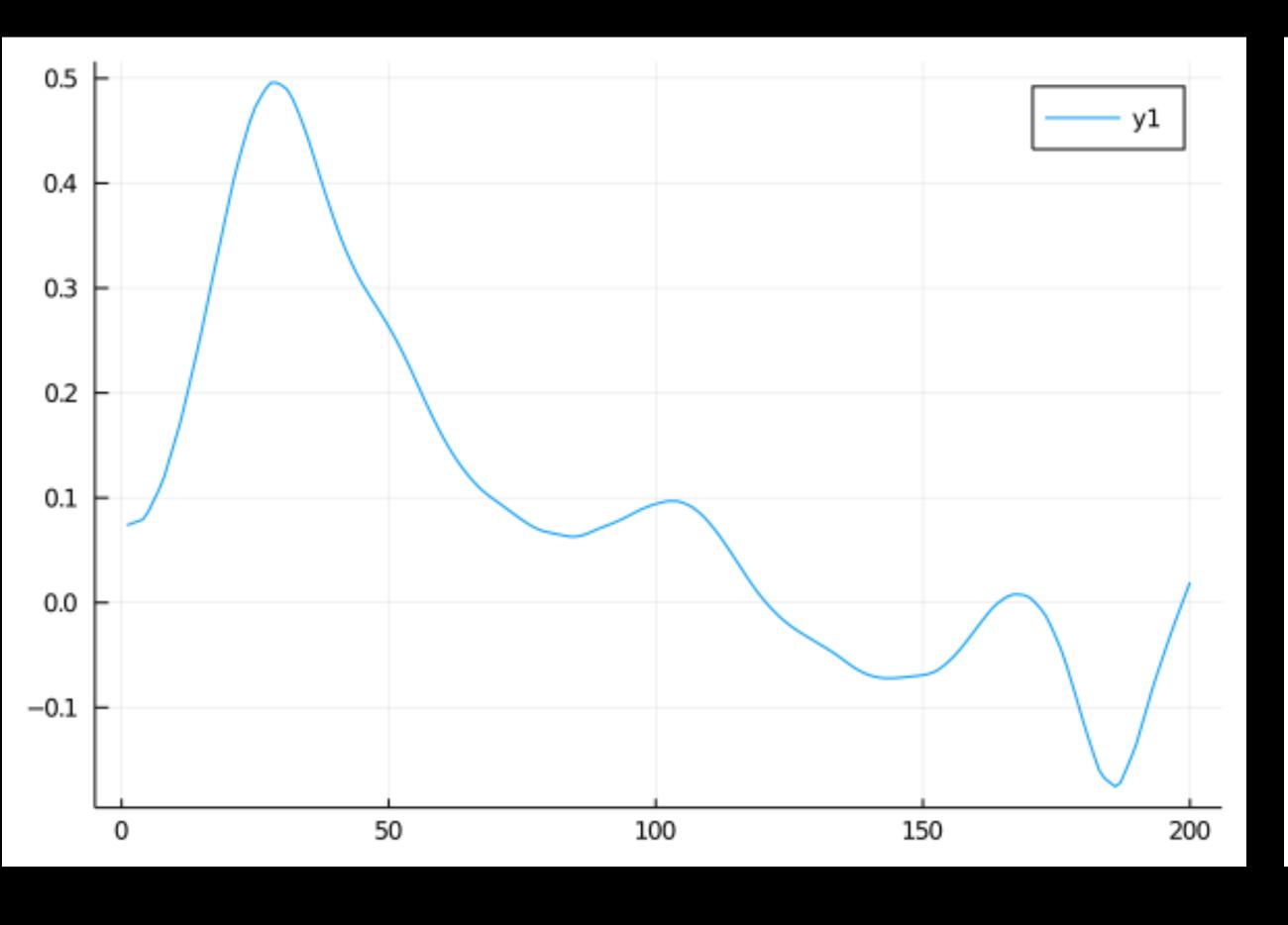
#### Z-acceleration - left step

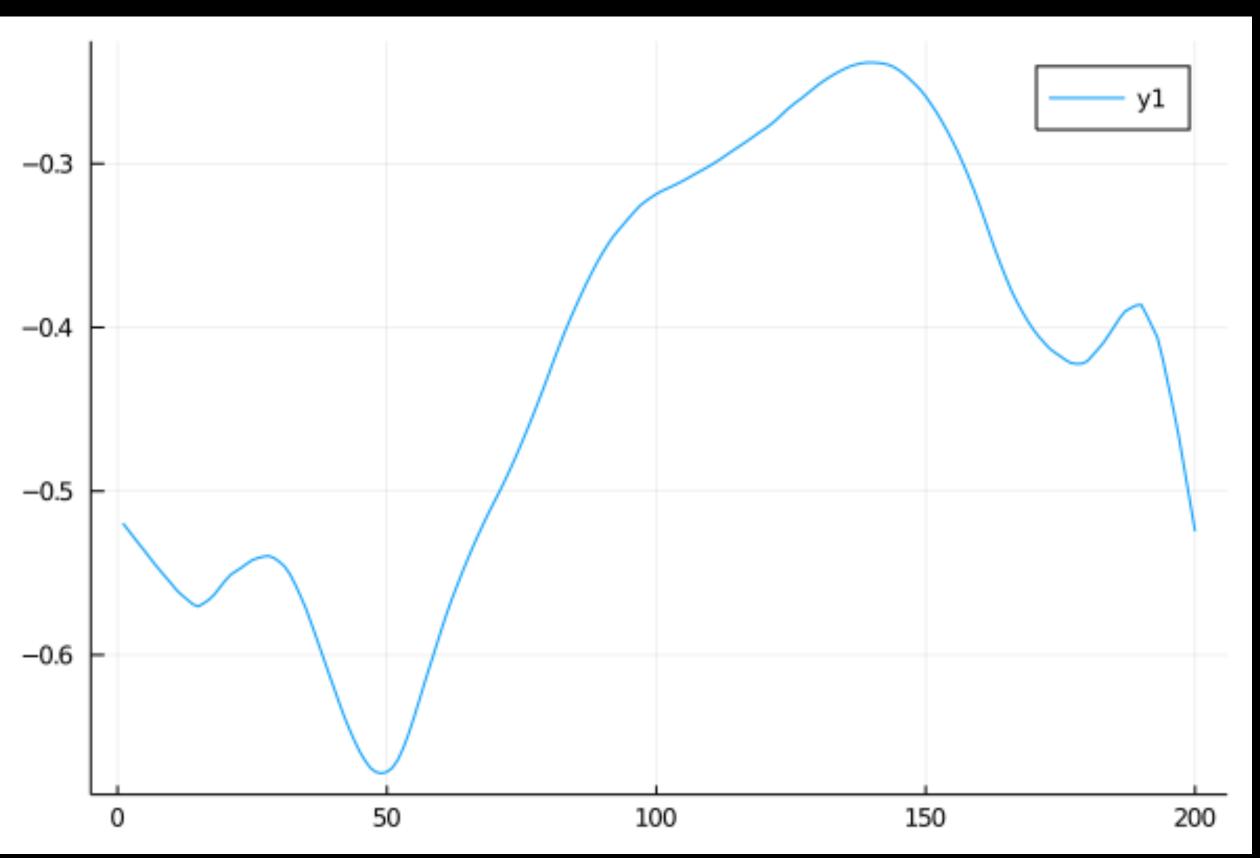




Aydin

# Plots Z-acceleration - right step





Aydin

#### What to improve? —> Next week's tasks

- Think about physiological dependence? What does really these plots imply?
- Improve your code write some useful functions as they did
- Calculate standard deviation
- A better presentation
- Add normstep variability and normstep asymmetry
- Collect more data
- Provide better plots