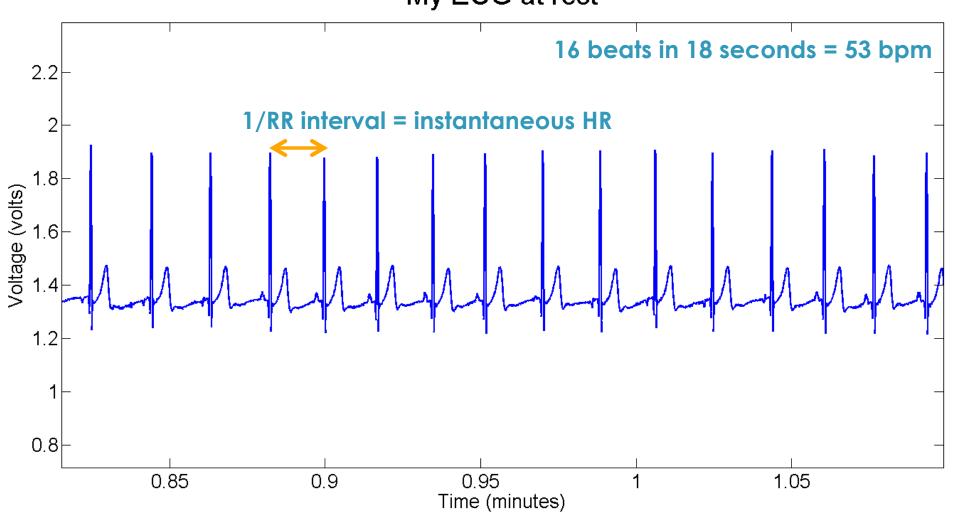
ECG and Activity Monitoring: what can we learn?

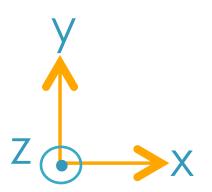
Maggie Delano maggied@mit.edu @maggied

Electrocardiogram: electrical activity of your heart

My ECG at rest

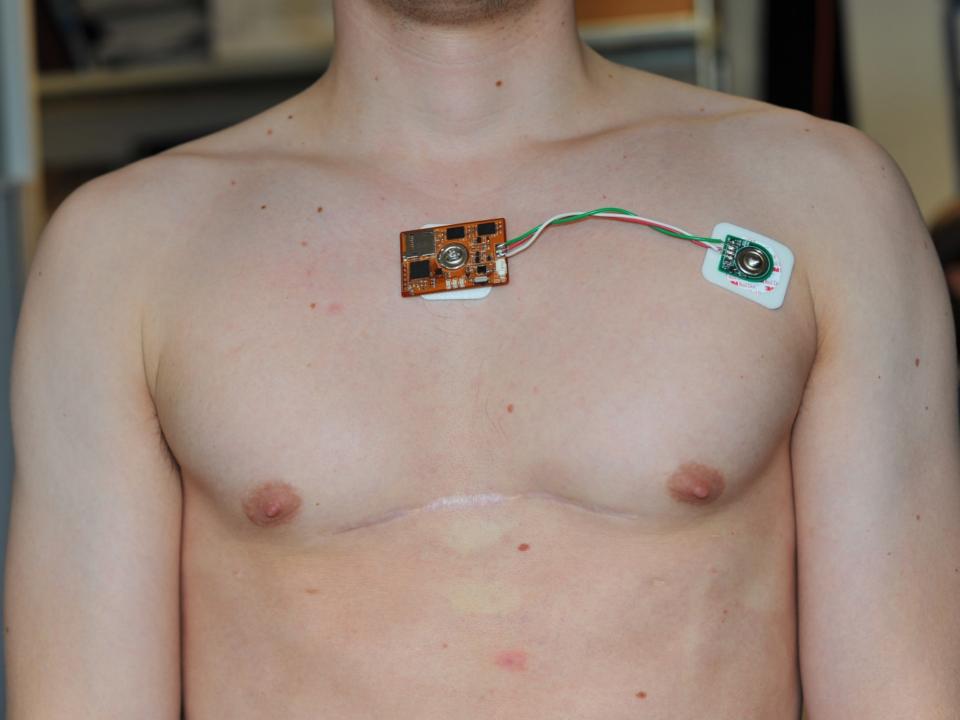


F = ma $Gravity = -9.8 \text{ m/s}^2 = -1g$

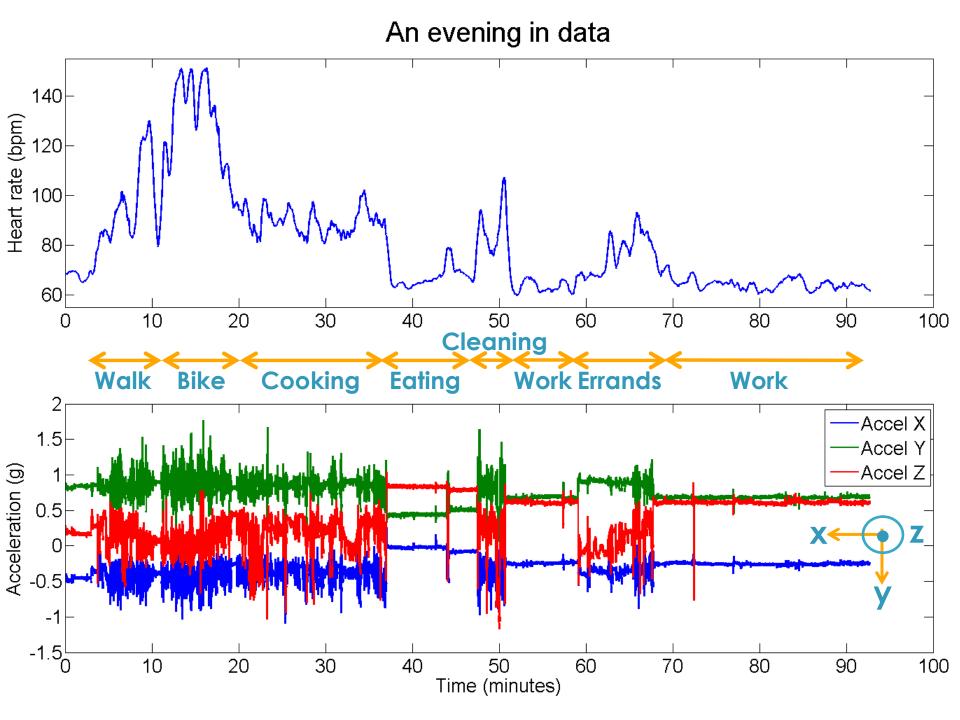


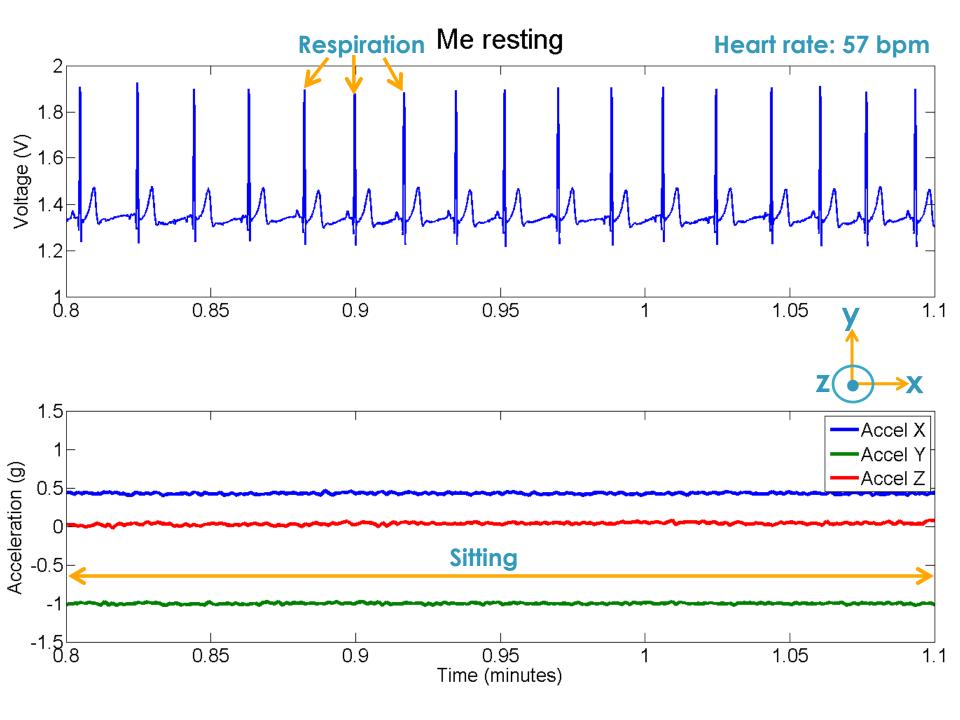


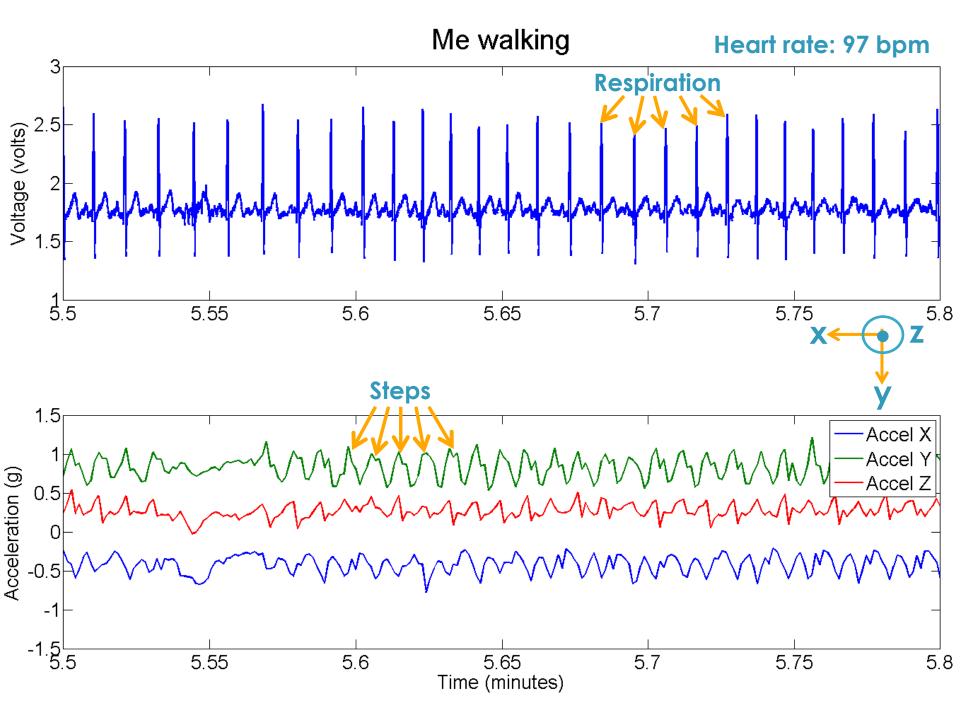


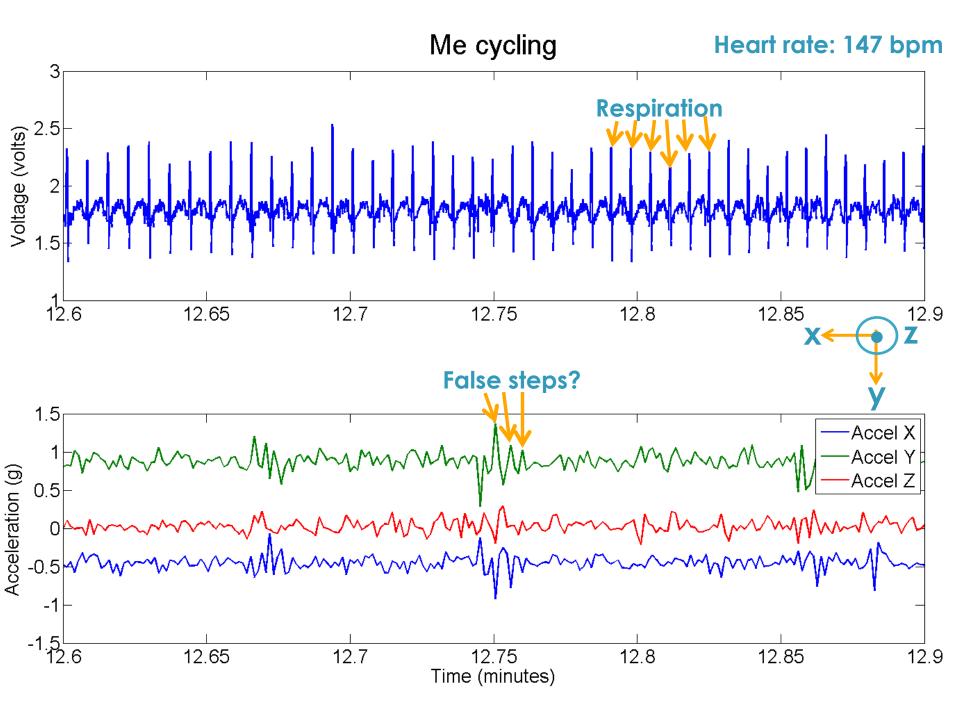


Data sets: 1. Daily activities 2. Sleep



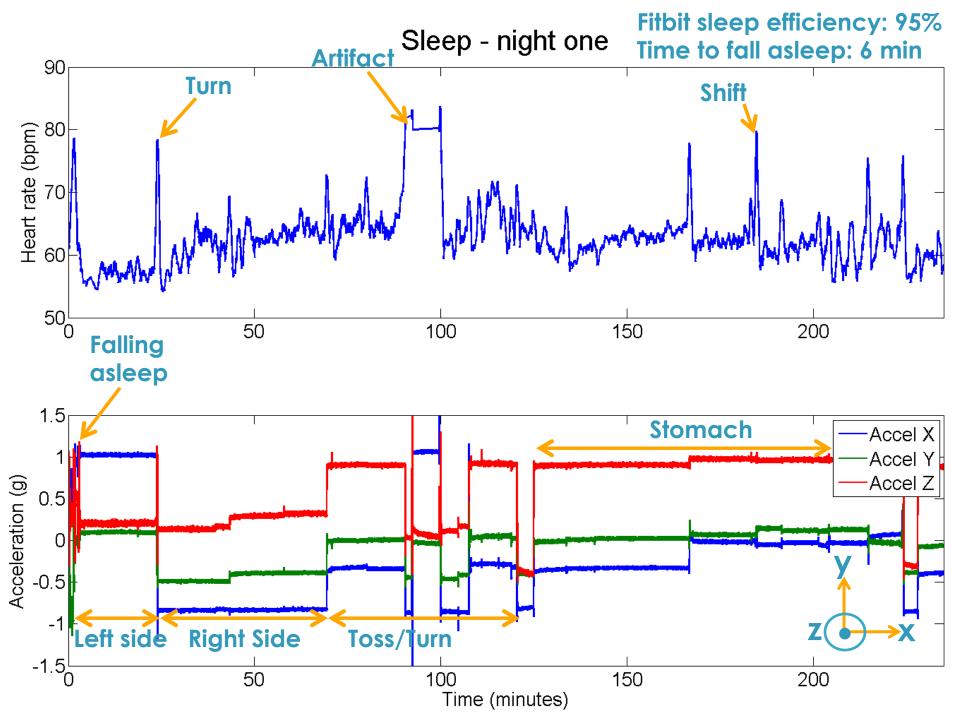


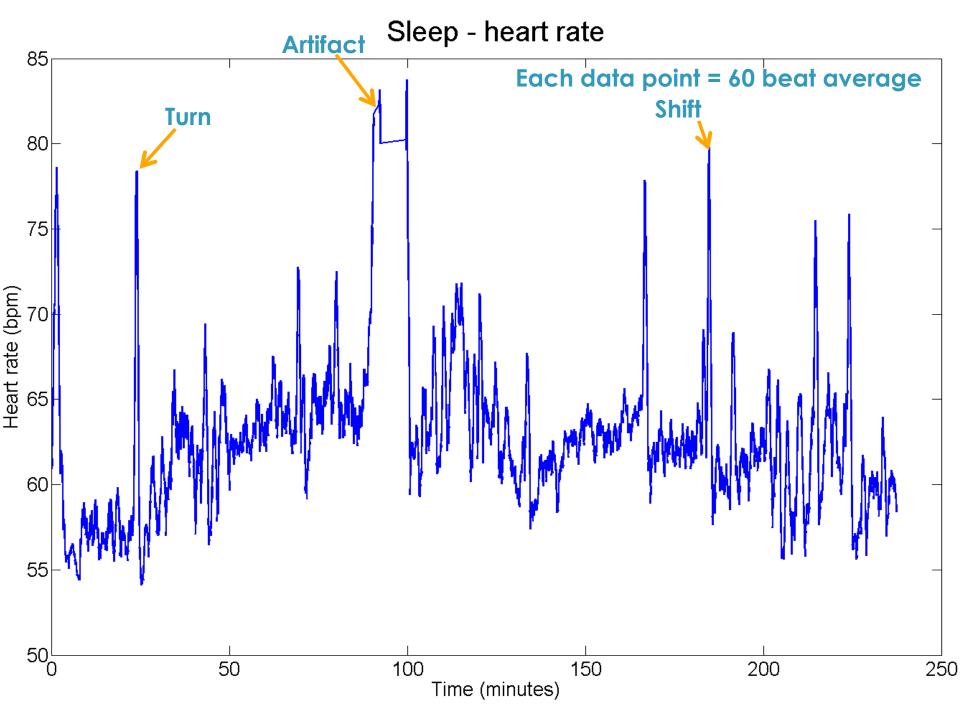




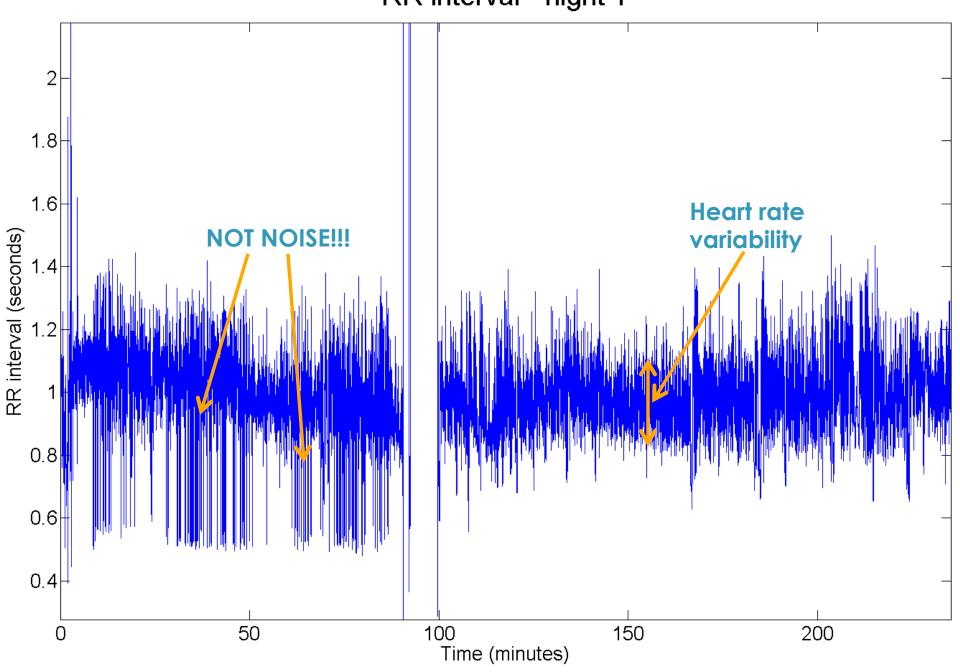
Lesson 1: HR changes a lot.

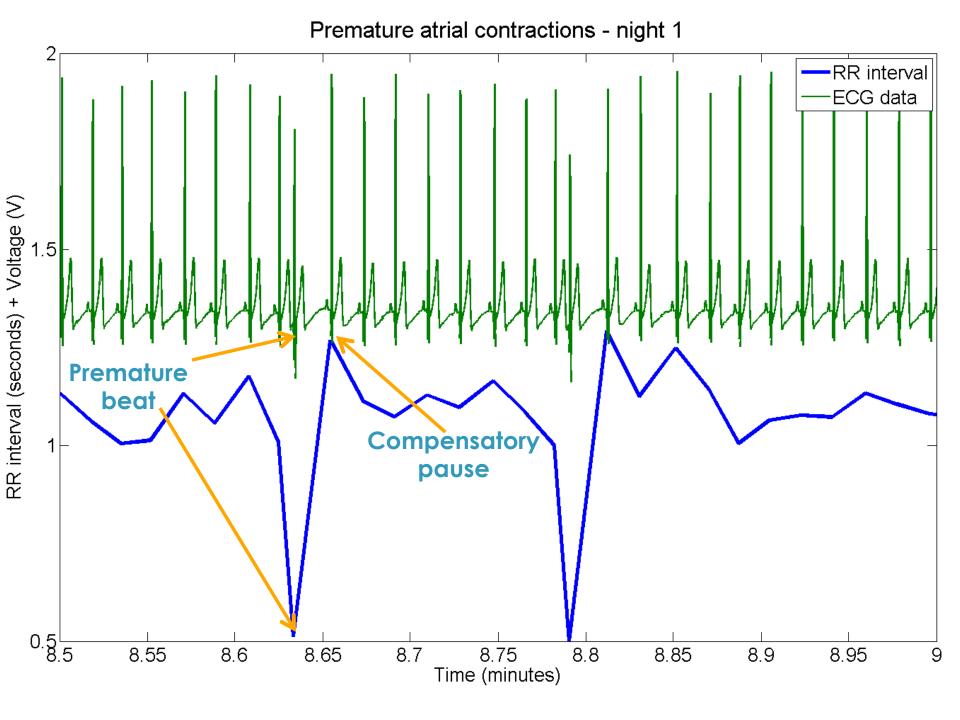
Lesson 2: HR changes are interesting, but need more data over time.



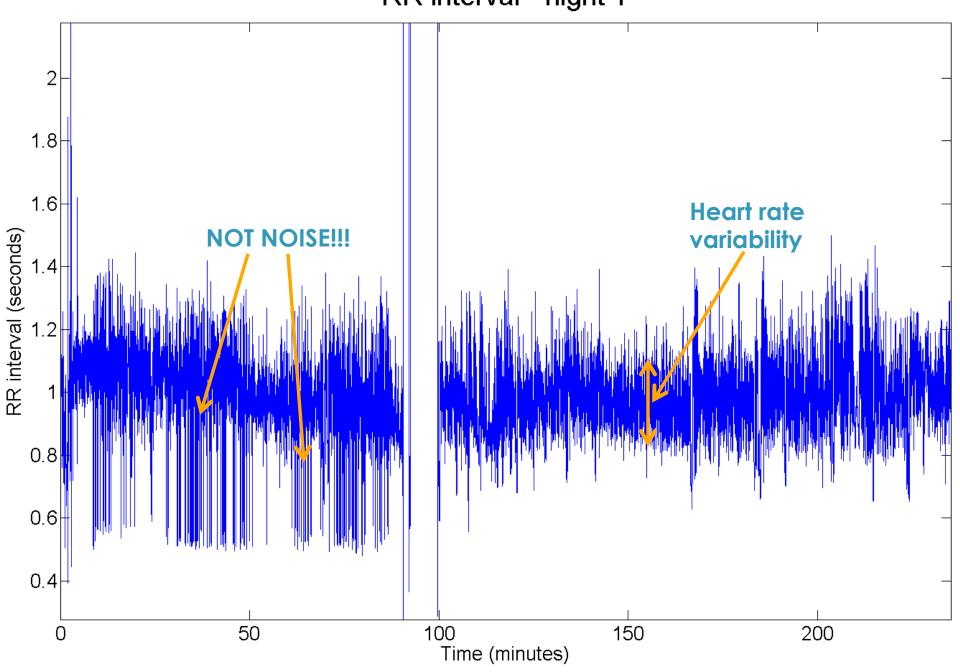


RR interval - night 1





RR interval - night 1



Lesson 3: ECG data reveals Premature Atrial Contractions, primarily during sleep.

Takeaways

Other cool stuff: - HRV

- Resp. rate
- CV dynamics
- Trends over time

ECG and Activity Monitoring: what can we learn?

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