1. We need to balance the usability and the unlock system robustness. The more complex of the unlock, the more secure of the system, the worse the usability. Finding a way that make the system secure and still has good usability is difficult. Biometrics is a good solution. It doesn’t increase the user workload.
2. What you know: PIN   
   What you have: Smartcard google watch and What you are biometrics
3. *Recall-Based Systems* /*Reconition-Based Systems*

Do a survey what is common used unlock gesture on android?

Give a vibration while unlocking.

Hack system, get touch area size to cluster. Users touch button 1 area is different.

Give the first threshold based on carry on motion, hand in phone gestures.

Changing threshold or algorithms on different attempts

AI group project

7001 literature review

HW HCI

1.sharing mode ccs

2.prototype glass vision system

3.prototype AR social network(talked to Blaire after Brown Bag)

4.Website

Google[x]