

Human-Computer Interaction

Project Introduction

Professor Bilge Mutlu

Recap of *Module 3*: *Project*

General Outline (Recap)

We will carry out a semester-long research project where you will connect and practice the **seminar** and **methods** modules.

- » We will use the last 15–30 minutes of class on Mondays and time left on Wednesdays to discuss project goals, steps, deliverables
- » Feedback during office hours, through deliverables
- » Individual or pairs, expectations are different
- » 30% of your total grade

Project Deliverable (Recap)

We will incrementally write a four-to-six-page paper potentially submittable to an HCI conference.

» **Individuals:** 4 pages

» **Pairs:** 6 pages

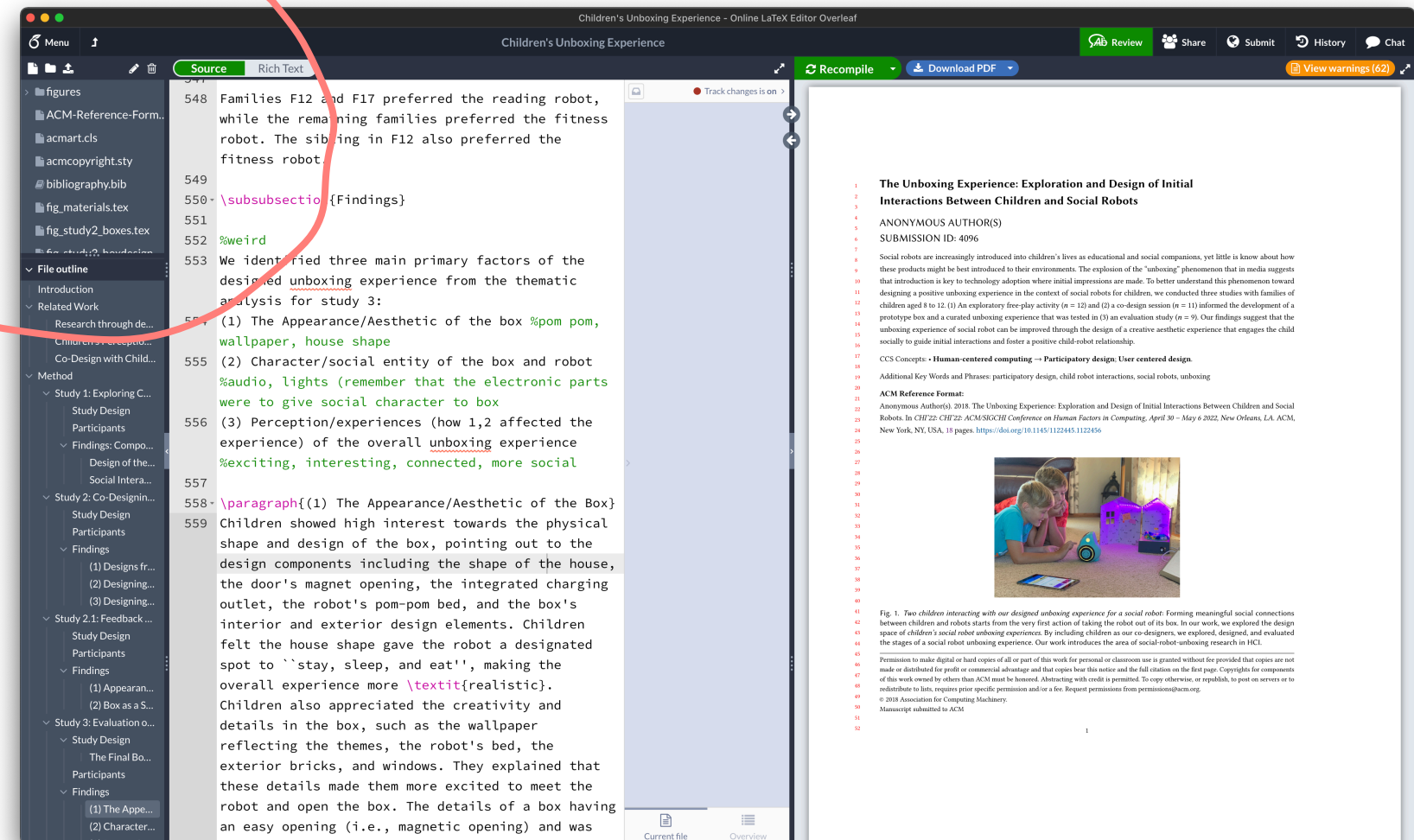
Project Topics (Recap)

We will take inspiration from last year's best-paper-award winners at CHI and choose a topic following the algorithm:

- > **Skim a set of papers**
- > **Focus on 2-3 based on interest/research style**
- > **Read related work to understand gap**
- > **Read what the paper did to understand where it fits**
- > **Determine what else remains unexplored from limitations**
- > **Zoom out, choose topic, find partner (optional)**

Project Deliverables (Recap)

- » Project Topic <
- » Literature survey, RQs <
- » Method <
- » Data <
- » Analysis, results <
- » Final paper <



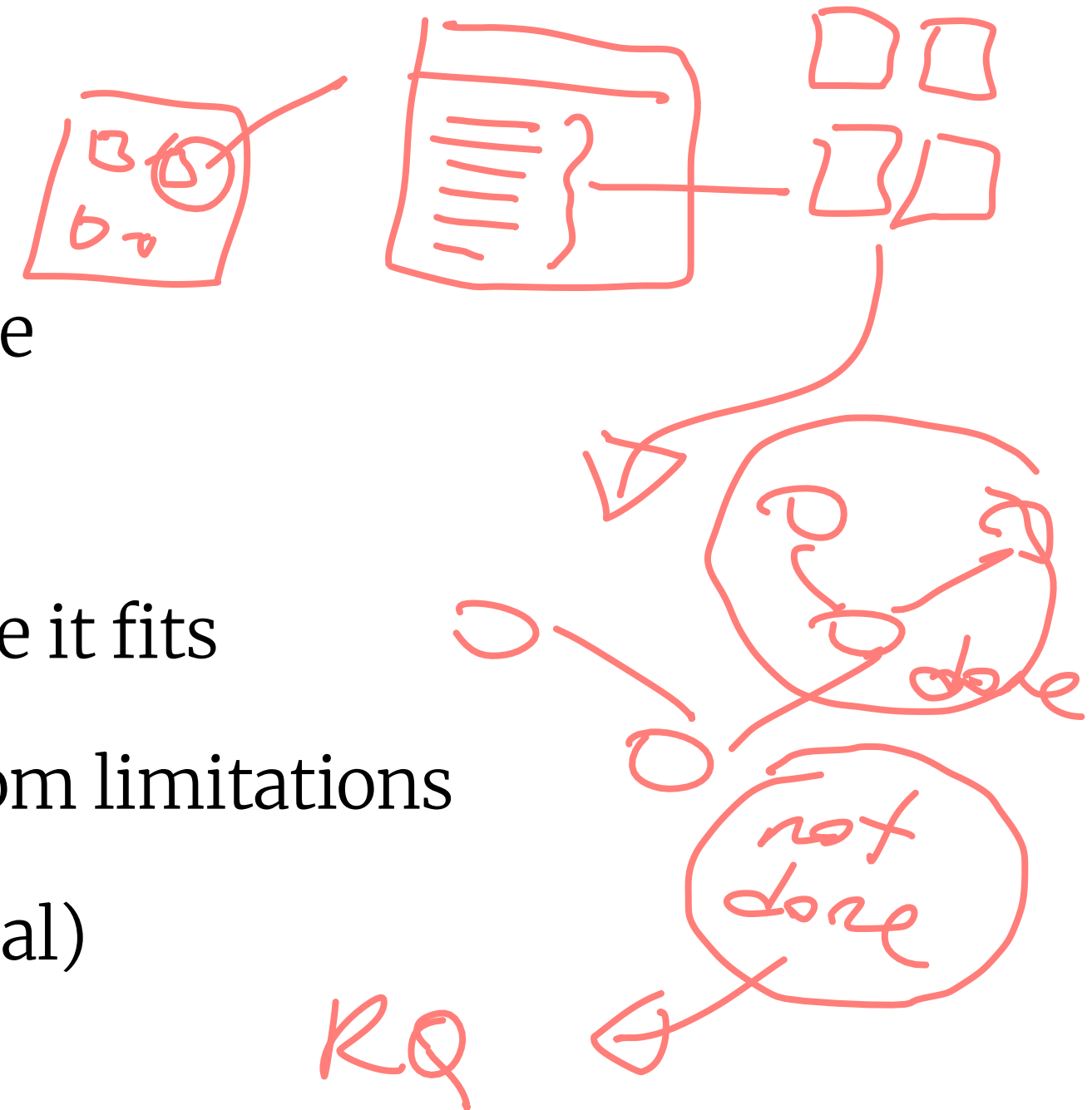
Why are we doing this? (Recap)

- » Practicing research with different levels of uncertainty
 - » Hands-on activities: controlled, structured, short
 - » Assignments: semi-controlled, semi-structured, medium
 - » Projects: uncontrolled, unstructured, long
- » This might feel redundant, but redundancy is often good!
- » Bridging the seminar and the methods, contextualizing the methods within the seminar topics

What's Next?

We'll execute the algorithm

1. Skim a set of papers
2. Focus on 2-3 based on interest/research style
3. Read related work to understand gap
4. Read what the paper did to understand where it fits
5. Determine what else remains unexplored from limitations
6. Zoom out, choose topic, find partner (optional)



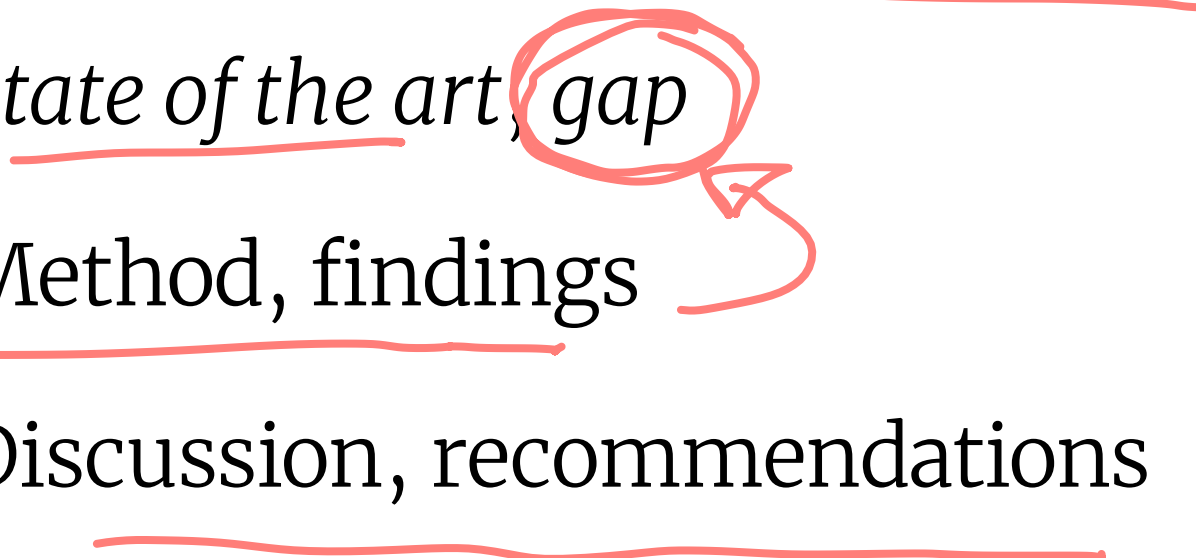
1. Skim a set of papers

- » Paper award winners from CHI 2021
- » Available at the ACM Digital Library
- » Copied in Google Drive folder

2. Focus on 2–3 based on interest/research style

- » Skim the titles and abstracts and see what looks interesting
- » Look for what type of research: *systems/studies*, *qualitative/quantitative*, etc.

3. Read related work to understand gap

- » The anatomy of an HCI paper
 - » Introduction/problem formulation
 - » State of the art, gap
 - » Method, findings
 - » Discussion, recommendations
- 

4. Read what the paper did to understand where it fits

- » Ask the question:
What did the paper do to close the gap?
- » Create a map of knowledge in this area, including the what the paper did

5. Determine what else remains unexplored from limitations

- » From the map you created, find remaining gaps
- » Problems worth studying must be:
 - » Not studied/understudied
 - » Significant/impactful
 - » Pervasive/frequent
 - » Persistent

6. Zoom out, choose topic, find partner (optional)

- » Outline a portion of the remaining gap for your study
- » Make sure that it is *nontrivial* but *feasible* to do in a semester
- » You can use Piazza or in-class discussion next week to find a partner

IRB

Institutional Review Board

Questions?

