

Logistics: Project Milestone 2

- Milestone 2: Due Nov 4
 - Summarize your progress
 - Should make enough progress to know **whether the project is feasible**
 - Last chance to convert a research project to an extensive literature survey
- Midterm Pitch: Nov 1 (Tue), in lecture
 - Opportunity to engage other classmates
 - Every group will get around some time from other groups
 - If you want to engage the entire class (for data collection, etc)
 - Let me know at least one week in advance
 - There might be time limits (e.g., 3~5 minutes)
 - Plan your progress to **utilize this discussion lecture**

Student Presentation

- Remember to submit the peer review form **by 6pm**

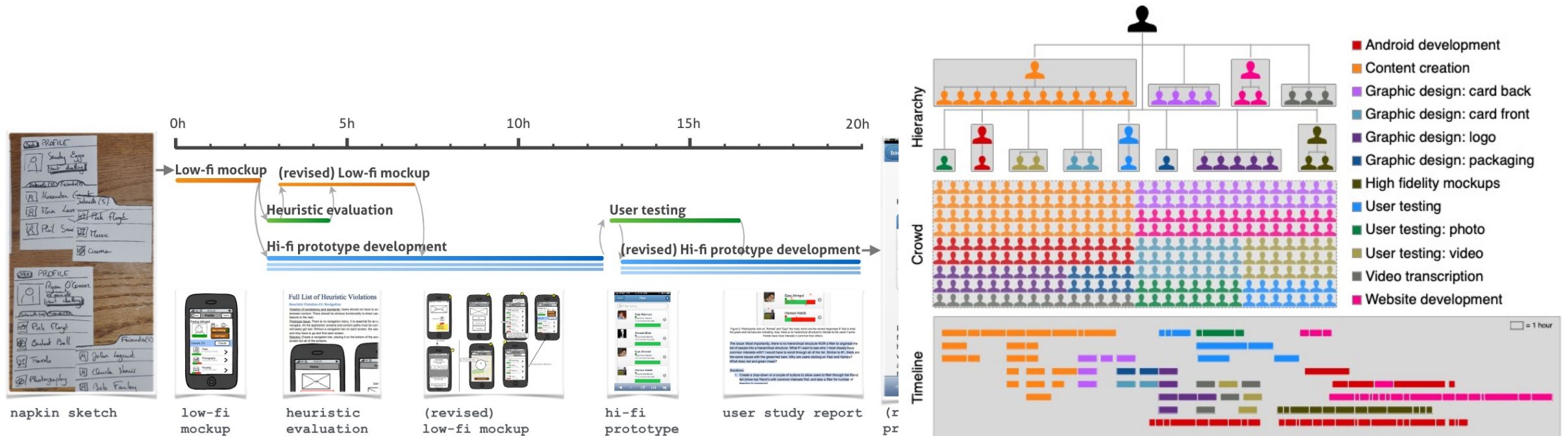
Lecture 16

Future of Work

Instructor: Chien-Ju (CJ) Ho

This Lecture

- Teamwork and Expert Crowdsourcing

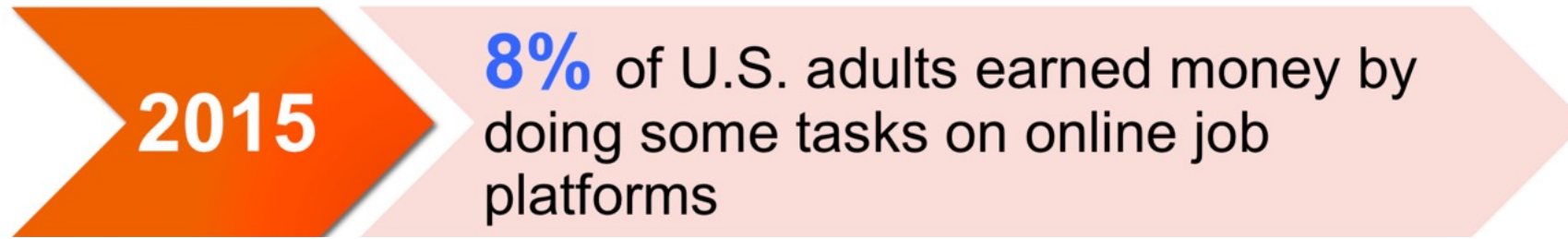


Blurring the Line of Traditional/Micro Work

More Than Crowdsourcing

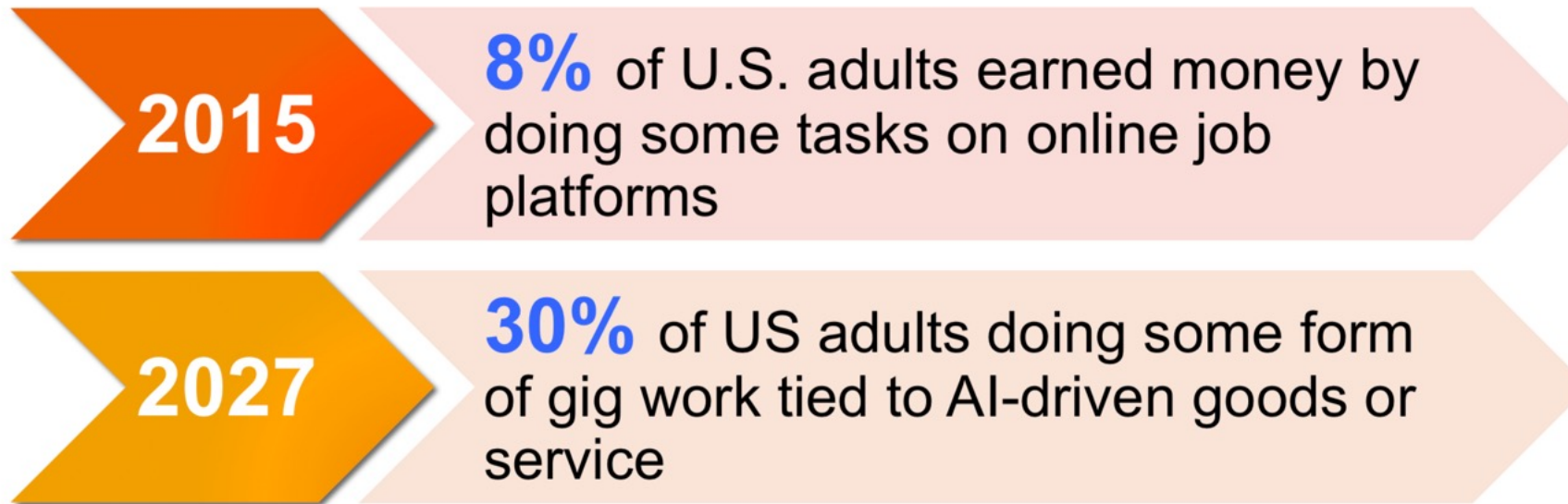


More Than Crowdsourcing: Gig-Economy



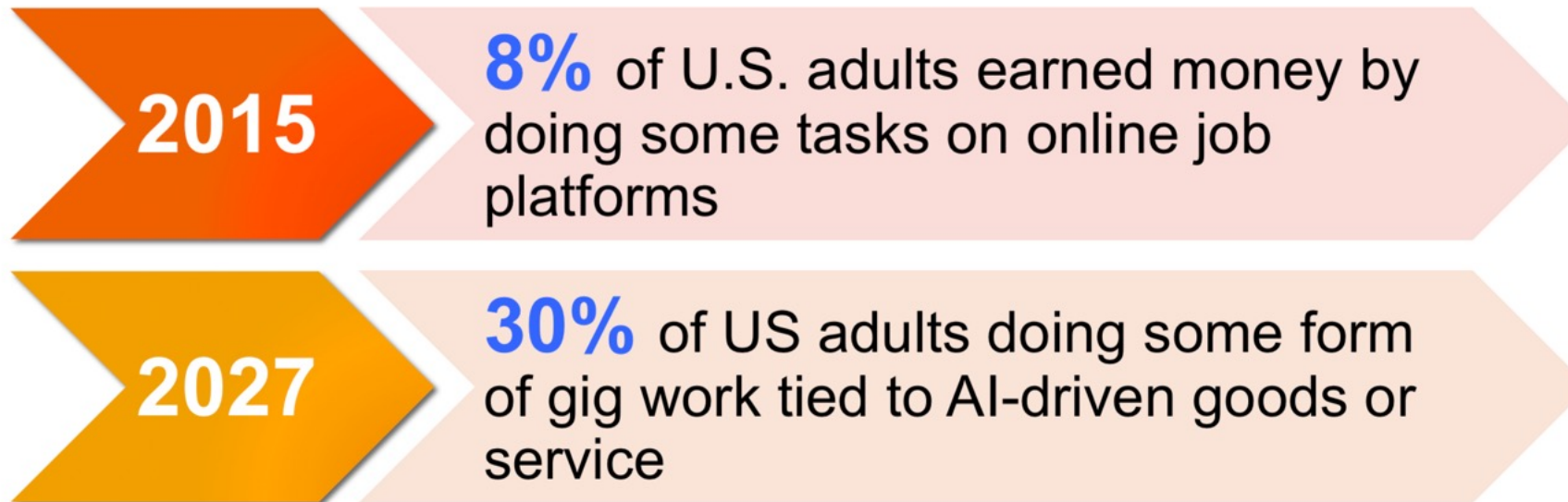
Gig Work, Online Selling and Home Sharing. Pew Research Center, November 2016
Spike in Online Gig Work: Flash in the Pan or Future of Employment? Social Media Collective, November 2016

More Than Crowdsourcing: Gig-Economy



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More Than Crowdsourcing: Gig-Economy



Prop 22 passes in California, exempting Uber and Lyft from classifying drivers as employees



By Sara Ashley O'Brien, CNN Business

Updated 4:02 PM ET, Wed November 4, 2020

Judge rules Calif unconstitutional

Voters approved the law in November

By Kim Lyons | @SocialKimLy | Aug 21, 2021, 9:36am E

BUSINESS

Labor Department moves to make it harder to misclassify gig workers

A proposed rule could affect Uber, Lyft and other companies that rely on independent contractors



By Rachel Lerman

October 11, 2022 at 1:30 p.m. EDT

Even the traditional work
environment is changing

Dropbox is making its workforce 'virtual first.' Here's what that means

By [Kathryn Vasei](#), [CNN Business](#)

Updated 4:59 PM ET, Tue October 13, 2020

27 Companies That Have Switched to Long-Term Remote Work

If remote work is the future, these companies are ready — and hiring

[Emily Courtney](#) • October 8, 2020

Mark Zuckerberg has a \$10 billion plan to make it impossible for remote workers to hide from their bosses

BY [JANE THIER](#)

October 18, 2022 at 2:04 PM CDT

Microsoft is letting more employees work from home permanently

Microsoft employees will also be able to relocate

By [Tom Warren](#) | [@tomwarren](#) | Oct 9, 2020, 7:32am EDT

Google's plan to cut pay for remote workers who relocate is a bad idea

Many workers are paid based on where they live. That's changing.

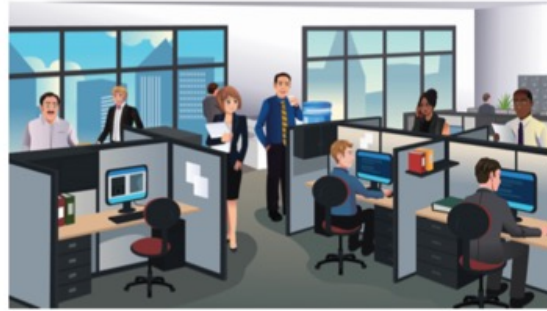
By [Rani Molla](#) | [@ranimolla](#) | Oct 4, 2021, 8:00am EDT

Airbnb's CEO warns the most dangerous part of remote work isn't lost productivity—it's loneliness

BY [TREY WILLIAMS](#)

October 18, 2022 at 2:48 PM CDT

Traditional



Centralized



Career



Management Strategies

On-demand



Distributed



Piecework



???

7 Jobs That AI Will Replace by 2025



Samantha Kang Jan 19 · 5 min read ★



These jobs are under threat as robots and artificial intelligence takeover amid pandemic

title

AI likely to replace 27% of jobs within 20 years: Jeanne Lim

AI will replace repetitive jobs, taking time to adapt to specialised roles: Lim



By Abhinav Singh

| October 15, 2020 18:49 IST

Future of Work

- One of NSF's 10 Big Ideas:
 - “In 2019, NSF will invest \$30 million in each Big Idea and continue to identify and support emerging opportunities for U.S. leadership in Big Ideas that serve the Nation's future.”



Future of Work at the Human-Technology Frontier

Catalyzing interdisciplinary science and engineering research to understand and build the human-technology relationship; design new technologies to augment human performance; illuminate the emerging socio-technological landscape; and foster lifelong and pervasive learning with technology. [Read more.](#)

Discussion

- From workers' perspectives, what do you think are “wrong” for the current crowdsourcing platforms? How do you think we can fix it?
- To put the questions into context, consider the following question
“Can we foresee a future crowd workplace in which we would want our children to participate?”
- What do you think are the most pressing questions related to the theme of “future of work”?

Improving Worker Welfare

- Discussion among researchers [Kittur et. CSCW 2013]
 - Create career ladders
 - Motivation, job design, reputation, hierarchy
 - Improve task design through better communications
 - Quality assurance, job design, task assignment, real-time crowd work, synchronous collaboration, platforms
 - Facilitate learning
 - Reputation and credentials, AIs guiding crowds, crowds guiding AIs, task assignment, quality assurance
- Various guidelines for conducting crowdsourcing
 - [Guidelines for Academic Requesters](#)
 - [Responsible Research with Crowds: Pay Crowdworkers at Least Minimum Wage](#)