

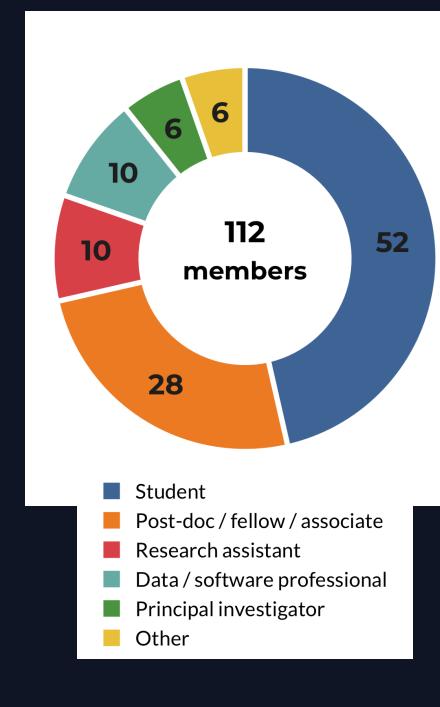
Peer-programming Taster Session 10th Feb 2022

Welcome and Introduction to Code Club
Introduction to Peer Programming
Discuss computing problems
Form groups of 2-3 people to work on a selected problem
Peer-programming: groups work on their selected problem
Wrapup
Closing

This activity is sponsored by the UCL eResearch Domain

Housekeeping

- Safety fire exits, toilets, COVID
- Privacy don't share personal info / sensitive data, don't record others
- Consent recording / screenshots / photos from Code Club
- Flexibility feel free to join / leave
- Help questions / issues? Talk to us :)
- 8 rules of Code Club be kind:)



Who we are

The UCL Code Club is a volunteer-led group focusing on good coding practice and reproducibility in computational research.

est. Summer 2019 by a bunch of geeks, nerds, and geeky nerds at the UCL Institute of Health Informatics united by a *desire to code* (2)

Open to everyone *whatever* language *whatever* level

More than 200 students & staff from across UCL have joined us as per Feb 2022



Code Club history (abridged)



UCL ChangeMakers award 2020 Researcher-led initiative award 2020 eResearch community-based initiatives award 2021 eResearch community-based initiatives 2022

IHI Code Club launch ICH Code Club launch



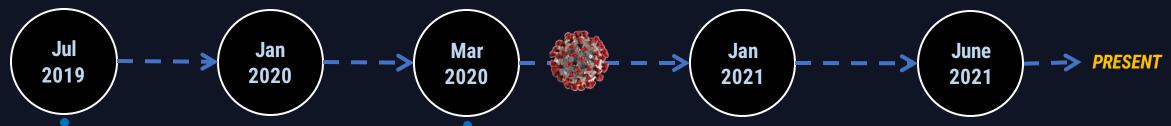


Code Clubs go virtual



CUDE CLUB

UCL Code Club launch



- Workshop series season
- Troubleshooting sessions

A CODE CLUB ORIGINAL SERIES **FANTASTIC**

- Workshop series season 2
- Open-access resources

• Workshop series season 3

Hackathon 2020+1





Next on UCL Code Club

- Peer-programming & social
 - Fortnightly (2nd & 4th Thursdays, 4.30-6.30 pm)
- Workshop series season 4 (TBA)
 - Monthly screening
 - Invited speakers (academia & industry)
 - Hands-on coding demonstration & practical

Events might be held in-person, on-line, or both

Contacts



ihicodeclub@ucl.ac.uk ichcodeclub@ucl.ac.uk



IHI Code Club
ICH Coding Club



@UCL_CodeClub



github.com/IHI-Code-Club github.com/UCLichCodeClub



ihi-code-club.github.io/handbook

We are looking for speakers, organisers, and collaborators from across UCL and beyond!

what is Peer-Programming?

- a.k.a. pair-programming
- Common technique used in agile software development
- Agile is a mindset one team, one goal
- Everyone contributes, divide the goal into many tasks
- Developers may work individually or in pairs on a task
- Benefits faster, less bugs, code quality, code skills, morale



How?

Define task --> Assign yourself --> Partner assigned (both have relevant skills)



Co-pilots in the same airplane

Work on each sub-task together - one does the flying/typing and the other gives directions/support at the same time (may swap roles)



Pilots in different airplanes

Split sub-tasks, work separately - set an end point to both stop, meetup, and check each other's work before merging



Don't fly solo.



But what about in academia?

- Most researchers work independently
- Sometimes work together on a project
- Split / share tasks share skills, knowledge, tools

How examples:

- Meet to discuss plan, then work separately
- Sit next to each other and work together
- Code Club peer programming troubleshooting

Objectives of these sessions

- Work on your real tasks
- Find others with skills (coding buddies)
- Learn to work together
- Dedicate time to code (alone or with others)

You can work solo if you want – just like a Shut Up & Write session

Activity: Define your task

In-person

- Get some post-it notes
- Think about and write a specific task you want to work together on
- Stick on wall when done

Online

- Go on menti.com code **3219 3406**
- Think about and post a specific task you want to work together on

Try to explain the task in an easy-to-understand way Highlight key skills/languages/topics

e.g. "Run a survival analysis in R"

"Split training and test datasets for my ML project using python"

"Draw a Kaplan-Meier curves stratified by gender in Stata"

"Submit a job array to the UCL High-Performance Computing cluster"

"Write documentation for software I've been developing"





In-person

- Read other post-it notes
- Write down your name if you're interested / can help
- Tasks with the most votes, work on first
- Chosen tasks, form a table and chat

Online

- Join your assigned breakout room
- Chat to potential buddies
- Tell us if you need a new room

You don't need to be an expert – *Google, StackOverflow*You can work solo if you want

You can just "watch & learn"

Activity: Peer Programming

- Pilot (person whose task is chosen) explain the task
- Simplify into steps
- Decide how to work:
 - work together screenshare
 - work separately split and assign sub-tasks, choose a stopping point (e.g. after 10 minutes or after sub-task complete) and come back together when done, explain and review what you've done

Safety notice: do not share private data / personal info, do not save if accidentally seen
You can take a break anytime or swap tasks/groups

Wrap up

We hope this was useful!

Feedback for next time?
Tell us now or through:



ihicodeclub@ucl.ac.uk



IHI Code Club

Next peer-programming session:



Thursday 24th Feb

16.30 social - 17.00 start - 18.30 end (BST)

UCL (tbc) AND Zoom

Eventbrite





