

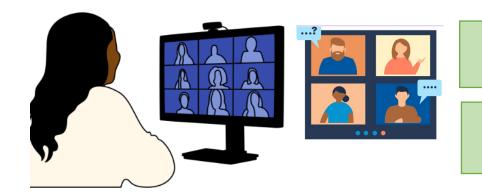
Sessions



Critical Thinking 28th February

Pre-session tasks





Session Activities

Extra Resources

- Cameras on please
- **Mentimeter**
- No question is silly
- An eagerness to learn, share ideas and HAVE FUN!
- Attempt pre-session activities (take less than 15 mins)

Research & Analysis 21st

Critical Thinking 28th

Project Work 6th Academic Writing 13th Presentation

& Debate 20th

Drop In Sessions

Graduation 27th

padlet

Overview



Research and Analysis (21st Feb)

Understanding of how to investigate a topic, how to distinguish between reputable and un-reputable sources of information, and the ability to examine the implications of your research.

Monday Drop In Sessions

Critical Analysis (28th Feb)

Understanding of how to analyse sources to form a judgement, the ability to challenge your own assumptions and take multiple perspectives on an issue, and awareness of the difference between a fact and an opinion

6th March

Project work

Academic Writing 13th March

Understanding of the **formality, objectivity and precision required to write academically**. To learn how to communicate your project work in an academic capacity, and **how to form conclusions**.

Presentation and Debate 20th March

Understanding of delivering a clear and persuasive argument, creating a clear presentation structure and the ability to listen to and answer questions. This session will directly contribute to the presentation of your projects during the in-person Graduation even

27th March

Graduation Event

Sessions





Analysis 21st

• Cameras on please ©

- 10 mins discussing Pre-session activity
- No question is silly
- An eagerness to learn, share ideas and HAVE FUN!

Critical Thinking 28th

Project Work 6th Academic Writing 13th Presentation & Debate 20th Graduation 27th



Link to resources for Critical Thinking session here

Pre-Session Activity

Look through UCL faculties and identify research that is interesting to you. Note down the

- 1. Faculty,
- 2. Division and
- 3. Research Topic

Watch 10-minute Video on credible research <u>here</u>

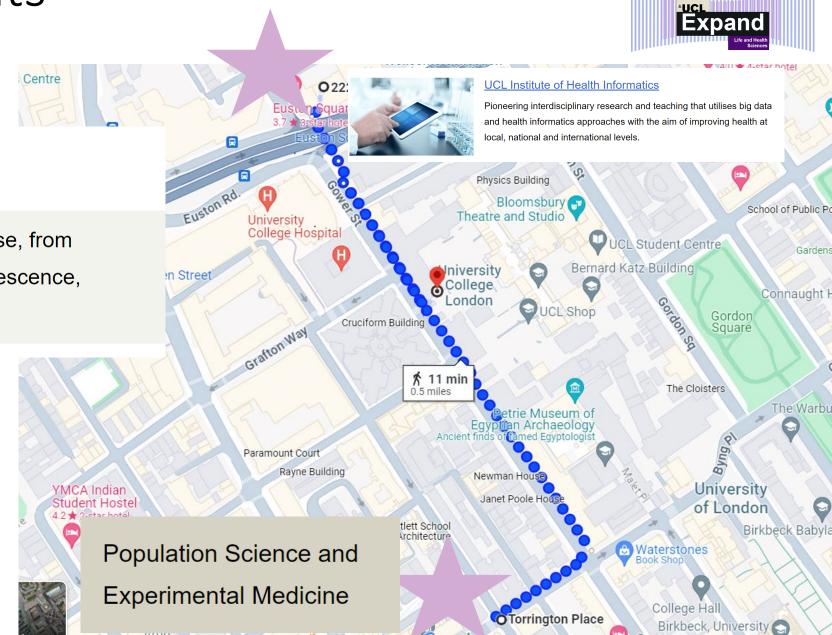
Research and Analysis Padlet

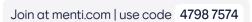
UCL Departments

Faculty of Population and Health Sciences

Research

Our research spans the whole life course, from conception, birth and childhood to adolescence, adulthood, older age and death.



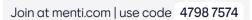






UCL Division

Waiting for responses ···







UCL Division

Waiting for responses ···







Research Question

Waiting for responses ...

Critical Thinking Session Outline



Understanding of how to analyse sources to form a judgement, the ability to challenge your own assumptions and take multiple perspectives on an issue, and awareness of the difference between a fact and an opinion

What makes a good question?

How to form an opinion with multiple points of view ?



What makes a good question

30 mins



Forming an opinion

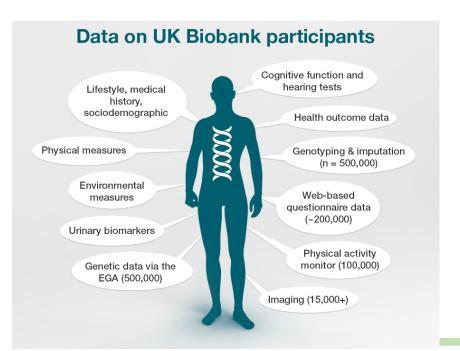
30 mins

Project focus

15 mins

My Research





Imaging

Cognitive tests

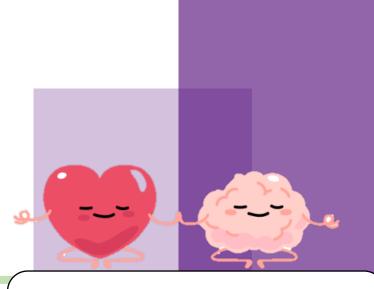
Genetic tests

Physiology





Second Visit



Towards a causal understanding of the longitudinal relationships between heart function and brain health

Initial Visit

My Research



What data is availiable right now?

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Imaging

Genetic tests

Cognitive tests

Physiology

Initial Visit

What questions will you ask?



are observed ?

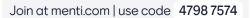
What changes

Second Visit















stions will you ask?

ISES ..









stions will you ask?

ises ..

My Research



What data is availiable right now?



Imaging

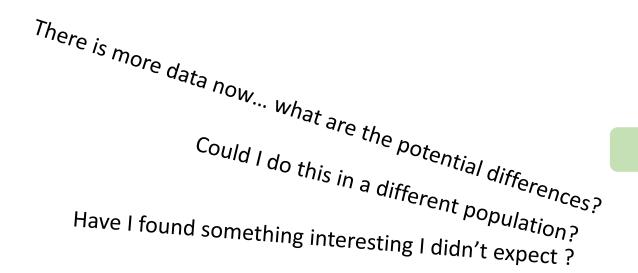
Genetic tests

Cognitive tests

Physiology

I haven't looked at cognitive and more complex genetic analysis yet?

Initial Visit

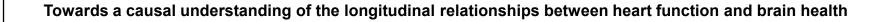




are observed ?

What changes

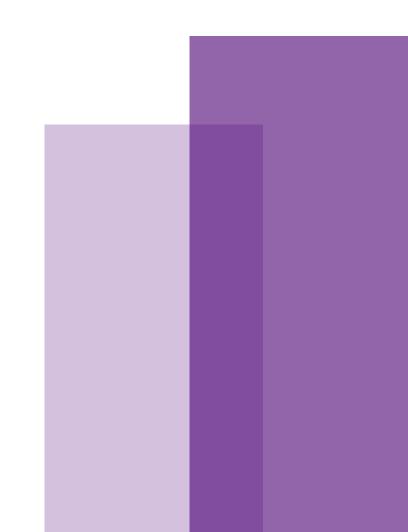
Second Visit





What questions do you want to ask?







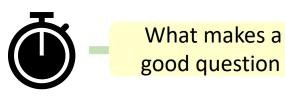


10 mins

Session 2



How to form an opinion with multiple points of view?



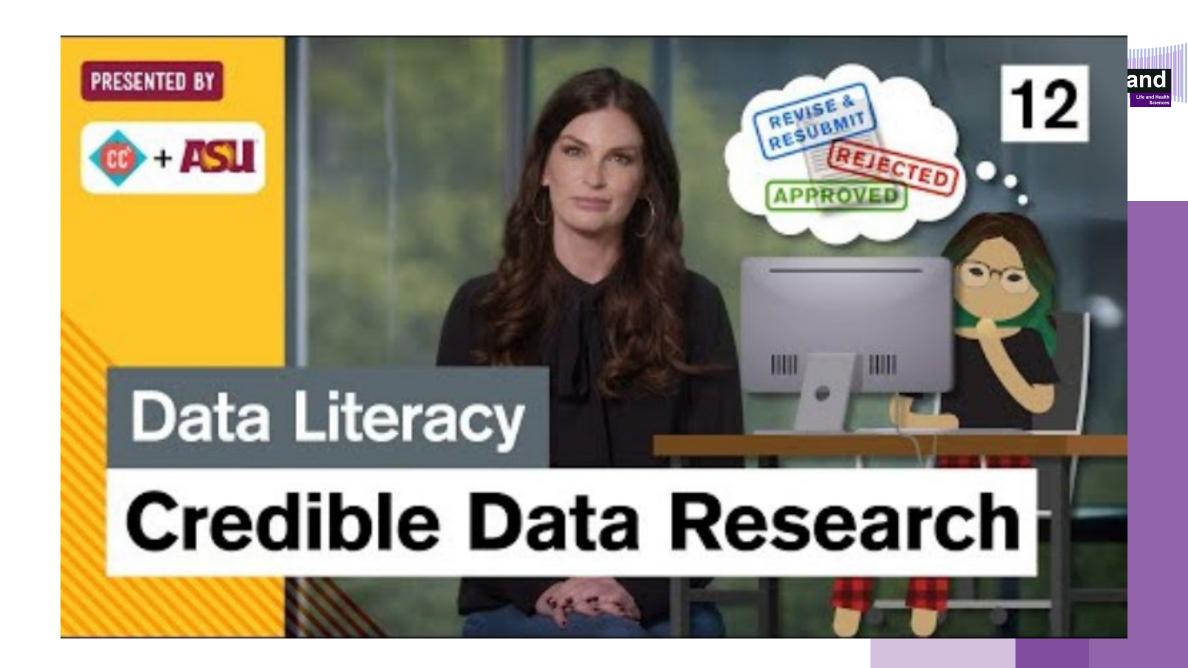
30 mins





Project focus

15 mins









What things should you look at ?





Using broccoli to protect the brain

When a person has a stroke caused by a blood clot in the brain, the clot can sometimes be broken down by clot-busting drugs. However, when this happens, molecules, called free radicals, travel into the part of the brain that has been re-supplied with blood, where they can damage brain cells.

Giovani Mann and his colleagues at King's College London BHF Centre of Research Excellence, have been studying a molecule called sulforaphane, which is found in broccoli, to find out if it can be used to limit the harmful effects of these free radicals.

Read the full article <u>here</u>



- 1. What can we find by searching 'using broccoli to protect the brain'?
- 2. What type of pages post this information ?
- 3. Can you identify 'credible sources' ? name the webpage and why you think it's credible?
- 4. Have you found unreliable sources? what information was lacking?
- 5. How do you think this information could be interpreted wrongly?

Using broccoli to protect the brain

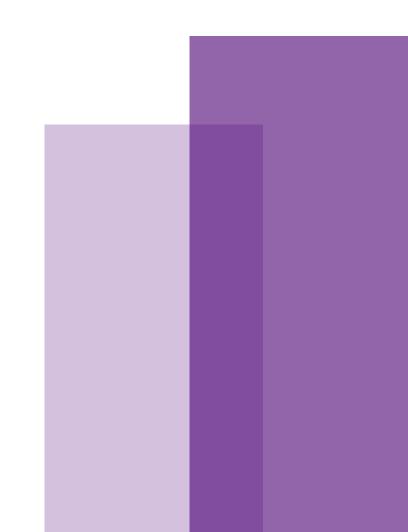
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What questions do you want to ask?





Conclusions



Understanding of how to analyse sources to form a judgement, the ability to challenge your own assumptions and take multiple perspectives on an issue, and awareness of the difference between a fact and an opinion

- Coming up with a good question involves looking at what has already been done and finding gaps.
- Looking at papers and different opinions gives a holistic overview on a subject or topic.
- Collaborating on research gets the best ideas and solutions to problems.
- Science headlines can quickly be used to spread misinformation





- Pre read the papers
- This session needs the most preparation (Estimated Time: 30 -40 mins over the two weeks)
- A glossary is available and use drop-in session and forum for any questions before the session

Sessions





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Critical Thinking 28th

Project Work 6^t Academic Writing 13th

Presentation & Debate 20th Graduation 27th

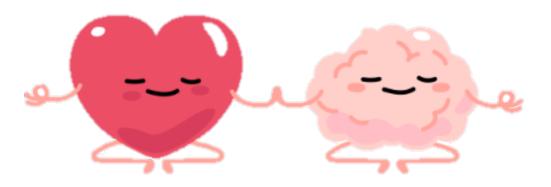
How is a research paper structured?



Pre session task

- The common structure in original research articles
- How is the news article different from the original research article?







See you in two weeks!

Next steps

Complete the pre-session tasks

Next session is project work with student ambassadors

What's coming up?

Drop-in sessions are run on the following evenings from 6pm – 7pm. Monday 18th March Monday 25th March

Your next subject session will be on (Wednesday 13th March) from 6pm – 7:30pm.

Any questions?

If you need any support, or have any further questions, please don't hesitate to send the UCL Expand Team an email at wp.post16@ucl.ac.uk or drop us a text on **07857630033**.

