Email: writing.centre@ucd.ie

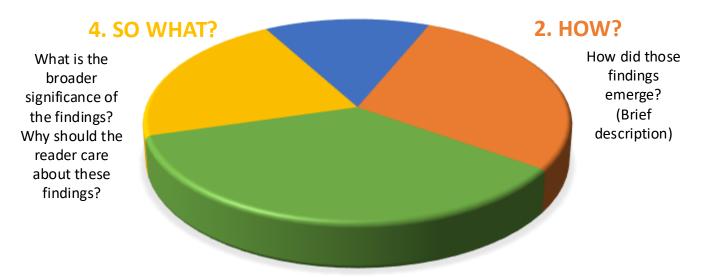
Scientific Writing: What is the Discussion? What Should I Address?

- The discussion section is the interpretation and analysis of the results.
- The discussion is like a "framing section", which returns to the significance of the hypotheses set up in your introduction. How have the hypotheses been demonstrated by the new research? Do the results support or reject the hypotheses?
- Highlight the main points of the thesis statement (argument), if relevant/appropriate.
 Provide a statement of acceptance or rejection of your unifying thesis, i.e. explain how your results affirm or contradict any arguments you were trying to make.
- Describe the principal results that led to your conclusions, but avoid re-describing the results in detail, i.e. analyse them instead (what, how, why, and so what?).
- **Compare** results between experiments / integrate experiments with each other.
- Identify any exceptions or any lack of correlation. Do not try to conceal negative results; deal with them openly.
- Comment on any potential **practical applications** of your work.
- Consider the **theoretical implications** of your research.
- Summarise the major findings of the thesis and explain their significance, i.e. explain (with confidence) how knowledge in the field or industry has been impacted by the addition of this new data.

How to Analyse the Findings Critically:

1. WHAT?

What were the findings? (Brief recap)



3. WHY?

Why did you get those findings? What trend or pattern do they identify/ suggest?

provide general writing advice only and students should **UCD Writing Centre** always follow the specific rubric required by their School. Email: writing.centre@ucd.ie Structuring the Discussion 1. Remind the reader about your central research questions, goals, and hypotheses. 2. Summarise the main results and findings. 3. Explain structure of Discussion Recap Goals + (i.e. group the findings and explain **Key Findings** order of the analysis). 1. WHAT: What were the findings? Were they positive or negative? (Brief recap from previous section). 2. HOW: How did those findings emerge? (Brief description). 3. WHY: Why did you get those findings? What trend or pattern do they Interpret + identify/ suggest? How do they relate to the field and existing literature? Analyse Results 4. SO WHAT: What is the broader significance of the findings? Why should the reader care about these findings? LIMITATIONS: Throughout the research, were there any limitations or obstacles that impacted the findings and, thus, your interpretations? **REMEMBER**: This structure is merely a foundational recommendation, and you should always consult the rubrics provided by your 1. Summarise your key findings lecturer. and their implications (your Conclusion interpretation). 2. Argue for the significance of your findings. 3. Make further research recommendations (noting any relevant gaps in research).

UCD Writing Centre resources

UCD Writing Centre

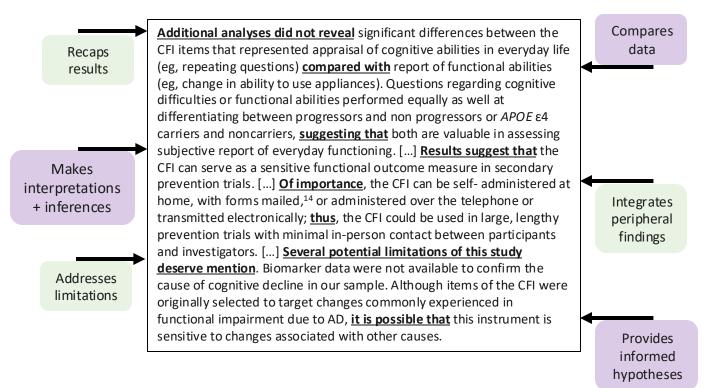
Email: writing.centre@ucd.ie

Effective Argumentation

To ensure you are being critical in your interpretation of the results, it is important that you "take an angle" or "take a stance" on the results, i.e. you need to use the results to make an argument, and be careful that you are not simply describing or explaining results. See the table below.

	Definition + Function	Example
Description	A detailed and informative account of an observed object or phenomenon.	The planet named Earth is the third planet from its sun.
Exposition (Explanation)	A detailed account of the causality of a phenomenon made valid by statements that carry the strength of natural law.	Earth is exactly the correct distance from its sun to sustain life for the human inhabitants.
Analysis (Argumentation)	A proposed resolution for a dilemma, a problem, or an inquiry, which uses a series of statements intended to prove validity (of premise) and which is based on evidence. In academia, the resolution is primarily, but not exclusively, contingent on establishing significance.	The perception of time for the inhabitants of Earth is specific to the planetary orbit of the sun only, proving that the human construct of time is anthropocentric and assuming that construct applies to any other part of the universe is erroneous and hubristic.

Example Discussion



Amariglio, Rebecca E. "Tracking Early Decline in Cognitive Function in Older Individuals at Risk for Alzheimer Disease Dementia", *JAMA Neurology*, vol. 72, no. 4, 2015, pp. 446-454.