Fall 2024

科技論文解密：從閱讀學寫作

Deconstructing Research Articles

Course #: LANGXXXXXXX
Professor: Yun-yin Huang (yyhuang@gapp.nthu.edu.tw)
Class hours: T5 (1 credit) **September 10- October 29, 2024 (8 weeks)**
Office hours: By appointment @ Room 207, GB II.

想要了解最新的科學研究發展嗎？想要成為頂級期刊的論文作者嗎？本課程帶領學習者透過解析期刊論文架構，一窺科學邏輯思維，熟悉常見學術用語，並瞭解學術寫作的多元面相，並培養關鍵之學術知能與素養。

Course Description

With or without experience reading/writing research articles (RAs), it is critical to familiarize yourself with the underlying structure and logics of research writing. This course aims at providing graduate students with the essential skills in academic written communications, meaning both the reading and writing of scholarly articles. Topics of this course include the common structure (IMRD/IPTC), concerns & moves of different sections, two distinct approaches to Abstracts, strategies to maintain the flow of the writing, as well as when/how to write descriptively (data commentary) and analytically (CARS model). ✎ Writing is thinking and this course is designed to help you writer better, and also think more logically and critically. [Suggested total learning time: 24 hours +]

Course Objectives

This course starts an analysis of purposes and audience of research articles, then move on to sample texts from various disciplines. By the end of the course, learners will be able to:

✎ Improve research writing skills for clarity and coherence.
✎ Develop discipline-specific vocabulary and genre knowledge for research writing.
✎ Enhance critical thinking skills for evaluating academic texts.

Course Requirements

1. Watch 9-hour of self-paced online lectures on 清華雲.
2. Take 9 quizzes and the final exam on 清華雲.
3. Active participation in all 6 synchronous sessions (google meet attendance to be recorded)
4. Complete and submit all tasks (reflection, analysis report) on time to designated google drive.
5. Use of AI: Conditionally open. Regarding transparency and responsibility, you can choose to use AI for collaboration and mutual learning to enhance the quality of your work. If you do, you must briefly explain how generative AI was used.

❤ **Assessment**

Attendance -15% Lectures-15% Quizzes -10%Analysis report-25% Reflection 20% Final exam – 15%

Course content and references

Self-paced lectures & quizzes: https://mooc.nthu.edu.tw/course/info/287

Synchronous session (SS): https://meet.google.com/ecb-nsso-prp

Weekly reflections: To be announced.

Tentative weekly schedule

Week /Date	Topic	Assignment, Quiz/Exam or In-class interaction
1 9/10	(1) Orientation (SS I) (2) Research & research writing (3) Selection of model articles	- Attend synchronous session I. - Select a research article from your discipline. - Watch Unit 1 lecture and take Quiz 1. - Submit Reflection (1)
2 9/17	(1) Structure & organization of RA (2) Flow: Connect ideas in your writing (3) Strategies to maintain the flow	- Watch Unit 2 & 3 lectures; take Quiz 2 & 3. - Submit Reflection (2) & (3) - Identify the structure and flow patterns in your selected model article.
3 9/24	(1) Method & materials (2) Group discussion (SS II)	- Watch Unit 4 lectures; take Quiz 4 - Submit Reflection (4) - Examine the language use in the Method section of your model article. - Identify the three components in the Results section of your model article.
4 10/1	(1) Data is king: data commentary	- Watch Unit 5 lectures; take Quiz 5 - Submit Reflection (5) - Examine the language use in the Results section of your model article. - Identify the three components in Data Commentary in your model article.
5 10/8	(2) Discussion or conclusion?	- Watch Unit 6 lectures; take Quiz 6 . - Submit Reflection (6) - Identify the moves in Discussion/Conclusion in your model article.
6 10/15	(1) Introducing your study: CARS model (2) Group discussion (SS III)	- Watch Unit 7 lectures; take Quiz 7. - Submit Reflection (7) - Identify the 3 obligatory moves of CARS model

		in your model article.
7 10/22	(1) RA abstract (1) Review	- Watch Unit 8 & 9 lectures; take Quiz 8 & 9 . - Submit Reflection (8) & (9) - Identify the moves in the abstract of your model article.
8 10/29	(1) Comment on analysis reports (2) Feedback and wrap-up (SS IV)	- Review Unit 1- 9 lectures; take the **final exam.** - Submit an **analysis report** of the model article 24 hours ***before*** synchronous session IV.

- Synchronous sessions (SS) are conducted online at https://meet.google.com/ecb-nsso-prp on designated **Tuesdays**, **13:20 - 14:10 pm (T5),** during the course period between, Fall 2024 (GMT+8)

Be prepared. Be active. Be critical. Be respectful. And have fun! 😊