AI-Powered Research Writing: Unlocking Tools for Smarter, Faster Results (The Sciences & Related Disciplines)

Dr. Tiffany Ip

Date: April 15, 2025 (Tuesday)
Time: 3:30 p.m. - 6:20 p.m.
Venue: Main Campus, HKU

Overview

This 3-hour workshop introduces postgraduate students of the sciences and related disciplines to the practical applications of AI tools for enhancing research writing. With the growing use of AI in academic work, the workshop focuses on how AI can be leveraged to streamline writing tasks, such as drafting, editing, referencing, and synthesizing research material. Students will learn how to write effective AI prompts, use AI outputs in their research, and integrate AI into various stages of their writing process – from brainstorming ideas to finalizing the manuscript. The workshop will provide hands-on experience with a variety of AI tools, empowering students to enhance their writing efficiency and academic rigor.

Learning Outcomes

By the end of the workshop, participants will be able to:

1. *understand* the role of AI in research writing, including its benefits and limitations;
2. *create* effective AI prompts tailored to their research needs;
3. critically *assess* and *refine* AI-generated content for academic use;
4. *integrate* AI tools into their writing, editing, and reference management processes;
5. *explore* advanced AI functionalities for research synthesis and data analysis; and
6. *apply* learned AI tools to enhance writing efficiency, clarity, conciseness, and academic rigor.

Learning Activities

1. Prompt crafting for research writing
2. Making use of AI output
3. Advanced AI uses for research

Remarks

The preferred class size is around 30 students to ensure an engaging and interactive learning experience.

Students are encouraged to bring along their own laptops and writing (e.g., an introduction they wrote for a research topic or a full research paper). This is optional but will allow them to apply the AI tools directly to their own work during the workshop.