

*Online Research Workshop*

# Flow in ChatGPT-based Logic Learning and Its Influences on Logic and Self-efficacy in English Argumentative Writing



**25/11/2024 (Mon)**



**4:30-5:30pm**

**Speaker: Prof. ZOU Di**

**ILP unit: 1 unit (IED)**

Professor Zou is an Associate Professor in the Department of English and the Head of the Centre for English and Additional Languages at Lingnan University, Hong Kong. Her research interests include AI in language education, technology-enhanced and game-based language learning. She has published more than 150 papers in international journals. Stanford University listed her as one of the World's Top 2% Most-cited Scientists since 2021 for four years.

## Abstract

In this talk, I will present my research on the role of ChatGPT in supporting logic learning for argumentative writing. Drawing on flow theory, which emphasizes engagement through a balance of skills and challenges, clear goals, feedback, and playability, I explore how a ChatGPT-based learning environment can enhance students' logic skills in English argumentative writing. Through a study involving 40 Chinese university EFL students, we used multiple data sources, including questionnaires, eye-tracking, knowledge tests, essay tasks, and interviews, to investigate the flow experiences induced by ChatGPT. The findings reveal that ChatGPT strongly supports flow antecedents, particularly skill-challenge balance and playability, which positively impacted students' understanding of argumentative logic. However, deeper engagement with the tool also led to decreased self-efficacy in writing. The talk will provide insights into how ChatGPT-assisted learning can influence both learning experiences and outcomes in the context of logic development in writing, with broader implications for educational applications of AI.



**Zoom link:**

<https://lingnan.zoom.us/j/98162360262?pwd=Tk8ahJ2DDW0viOIHJiNK0z90T2n8Xh.1>

**Meeting ID: 981 6236 0262**

**Passcode: 46136008**

**Enquiries: tshung@LN.edu.hk**