

Syllabus

Course Title: 研究方法-Quantitative research

Instructor: Dr. Yu-Wen Liu

Time: Wednesday 9:10am-12pm

Course Description:

The goal of the session of quantitative research methods is to teach you to understand and to confidently apply a variety of statistical methods and research designs that are essential for management research.

Course Objectives:

1. Learn the critical skills to evaluate others' research and conduct your own scientific research
2. Learn collect data, analyze data, critically read an article which presents a data analysis, or think about the relationship between theory and the real world.
3. Become a wise consumer of information from multiple sources such as individuals, the government, and corporations.
4. Become a wise producer of research.

Readings:

1. Liu, Y.* & DeFrank, R.S. (2013). Self-interest and Knowledge Sharing Intentions: The Impacts of Transformational Leadership Climate and HR Practices. *International Journal of Human Resource Management*, 24(6), 1151-1164.
2. Liu, Y.* & Philips, J.S. (2011). Examining the antecedents of knowledge sharing in facilitating team innovativeness from a multilevel perspective. *International Journal of Information Management*, 31(1), 44-52.

Class structure:

Class sessions may include lectures, small and large discussion groups. We will strive to clarify, supplement, and analyze reading materials. You are responsible for all assigned readings and all materials presented in class. You are also responsible for all information disseminated in class and all course requirements, including deadlines.

Course requirements:

Assignment (50% of final grade)

Participation and presentation (50% of final grade)

Weekly schedule:

Week 10	11/18	Quantitative research design I	Lecture
Week 11	11/25	Quantitative research design II Date collection	Lecture Lab: Correlations & regression Assignment I (10%)
Week 12	12/2	Quantitative research design II Date collection	Lecture Lab: ANOVA Assignment extra V (10%)
Week 13	12/9	Developing arguments Multivariate analysis I	Lecture Lab: Interaction plot Reading #1 Assignment II (10%)
Week 14	12/16	Multivariate analysis II Cross-level research	Lecture /Reading #2 Lab: group dataset SUMIF & COUNTIF 函數 Vlookup

			樞紐分析 Assignment III (10%)
Week 15	12/23	R programming	Assignment extra VI (10%)
Week 16	12/30	Quantitative research structure	
Week 17	1/6	Curvilinear regression	Lab: Quadratic regression Assignment IV (10%)
Week 18	1/13	Quant counseling	