Syllabus

Course Title: 研究方法-Quantitative research
Instructor: Dr. Yu-wen Liu
Time: Wednesday 10:10am-1pm

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.
3. Case: TBD

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:
Group presentation	(15% of final grade)
Assignment	(45% of final grade)
Final exam	(25% of final grade)
Participation and presentation	(20% of final grade)

Weekly schedule:

Week 1	9/16	Quantitative research design I	Lecture
Week 2	9/23	Quantitative research design II Date collection	Lecture Lab: Correlations & regression Assignment I (10%)
Week 3	9/30	Quantitative research design II Date collection	Lecture Lab: ANOVA Assignment V extra (5%)
Week 4	10/7	Developing arguments Multivariate analysis I	Lecture Lab: Interaction plot Reading #1 Assignment II (10%)
Week 5	10/14	AHP	Guest speaker Lab
Week 6	10/21	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 7	10/28	Final	Lab: In house exam
Week 17	1/06	Paper critique Curvilinear regression	Group presentation (TBD) Lab: Quadratic regression Assignment IV (10%)
Week 18	1/13	DEA	Guest speaker Lab