

Faculty Information

NAKAJIMA, Katsushi

■ Specialization:

Accounting and Finance (AF)
Japanese Management (JM)

■ Research Area:

Finance, Economics

■ Keywords:

Asset Pricing, Financial Economics, Portfolio Theory, Financial Econometrics, Corporate Finance, Financial Statement Analysis, Data Science

■ Seminar Topic:

Finance, Economics, Data Science

■ Seminar Teaching Method:

For 1st year students, we will be reading chapters from books and journal articles mainly achieving theoretical knowledge and technical skills for the research project. One chapter or an article will be given and the student will present it for each session. In the end of the 1st year, we will discuss the research topic for master's thesis or independent final report. From the 2nd year, we will be retrieving data and analyzing under the topic chosen. If required, we will be reading additional materials in order to tackle our topic.

■ Possible Research Topics for Students:

- Portfolio Theory: Construct a trading strategy that can beat the market index using Fama French factor model, Machine Learning technique including Deep Learning, and so on.
- Analyzing Impact of Corporate Action: Collecting M&A data and calculating the impact how it effects the stock prices.
- Financial Statement Analysis: Categorize firms into two or three groups (such as conventional banks and Islamic banks) and compare its financial ratios among those groups to see which the groups' characteristics.
- Applications of Machine Learning (Statistical Learning): Applying machine learning techniques to finance, economics, or management topics.
- Valuation: Evaluating companies using discount dividend model and/or discount cash flow model and other techniques.
- Other Applications of Statistical, Mathematical Techniques to Business and Economics.

■ Research Method:

Use statistical (including econometric) and financial engineering techniques such as t-test, F-test, linear regression, nonlinear regression, panel data analysis, vector autoregressive model, cointegration model, financial models, event studies, Monte Carlo simulation, etc.

■ Comments:

As you may know, my strength is using technical skills and applying it to social science. Although it may be tough, you will achieve scientific techniques and methods for tackling a research topic and build a foundation that will definitely be your strength in order to develop your career.

For those students who are aiming for PhD, please notify since we will be focusing on a research project that will be a PhD thesis.

Requirements for students:

1. Not allergic to statistics and mathematics.
2. Be able to use or willing to use excel and other statistical software such as R. (You can achieve these methods through my seminar or other classes while in your first year.)

■ APU Researcher Database:

<https://researcher.apu.ac.jp/apuhp/KgApp?resId=S001549&Language=2>