Empirical Finance: A Review

For Personal Reference

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Inspired by the Course ***Empirical Finance*** at
London Business School by *Dr. Svetlana Bryzgalova*

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HERE WE GO!

Empirical finance is an absolutely fascinating field, with some of the most cutting-edge methodologies and the most exploratory techniques. Although it is not my speciality, I am always interested in this literature. During my pre-doc research fellowship at London Business School, I have had the previlege to study in the course ***Financial Economics II: Empirical Finance***. The course instructor Dr. Svetlana Bryzgalova is absolutely one of the most brilliant scholars I have encountered. Thanks to her, I have got to understand this liturature more systematically. In this (personal) review, I summarize the most influential and inspirational works in this field and organize them by different topics. The structure of this review resembles the structure of Dr. Bryzgalova's course, but adjusted according to my personal research interest. I intend to review classic works and discuss some potential directions of future study regarding my personal interest in Behavioral Economics, Game Theory and Network.

Since this review is tailored according to my own research interest and experience, I will not only summarize the theoretical perspectives of the studies, present their findings and discuss how they fit into the literature, but document my replication attempts and pseudo codes as well. All the codes related to this review can be found on my Github page.

I thank Dr. Svetlana Bryzgalova for her valuable intuitions and impressive knowledge of the empirical finance literature. Building this review is truly a memorable journey for me. I would love to share this review and all the related materials to anyone that finds them useful. And unavoidably, I would make some typos and other minor mistakes (hopefully not big ones). So I'd really appreciate any correction. If you find any mistakes, please either set up a branch on Github or send the mistakes to this email address saizhang.econ@gmail.com, BIG thanks in advance!

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In this chapter, I summarize the stylized facts and models of intrest rates, and, combining with the time-series and cross-sectional properties of equities, discuss how the term structure of equity can be incorporated into the asset pricing dynamic. Instead of assuming the risk-free rate to be one period, as classic asset pricing models implying in the Euler equations and SDFs, one would expect that an ideal asset pricing model could not only explain the dynamic of equity, but reconcile the property of the term structure of interest rates as well.

The first part of this chapter summarizes studies of risk free bonds and the term structure of this asset class.

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BIBLIOGRAPHY

John Y Campbell. *Financial decisions and markets: a course in asset pricing*. Princeton University Press, 2017.

John H Cochrane. *Asset pricing: Revised edition*. Princeton university press, 2009.