

Empirical Asset Pricing

USI - Spring 2020

Reading List

The textbooks are:

- John H. Cochrane, *Asset Pricing* (revised edition), Princeton University Press, Princeton 2006. In the reading list I will refer to this book as **Cochrane**
- John Y. Campbell, Andrew W. Lo, and A. Craig MacKinlay, *The Econometrics of Financial Markets*, Princeton University Press, Princeton, 1997. I will refer to this book as **CLM**
- Huang, C.F., and R.H. Litzenberger (1988), *Foundations for Financial Economics*, Prentice-Hall. I will refer to this book as **HL**

All the readings in this list are required.

When I denote a reading by *, I will assume knowledge of the intuition and main results (which you can often, but not always, draw from the Introduction and Conclusion, if it is an article).

The other readings are the most important ones. You will need to have a very good grasp of the entire content.

Introduction: Efficient Market Hypothesis

CLM, chapter 1

Fama, Eugene, 1991, Efficient capital markets: II, *Journal of Finance* 46, 1575-1617

Fama, Eugene, 2010, My life in finance, working paper, University of Chicago.

Ke, Kelly, and Xiu, 2019, Predicting Returns with Text Data, Working Paper

* Gârleanu, N. and Pedersen, L.H., 2018. Efficiently inefficient markets for assets and asset management. *Journal of Finance*, 73(4), pp.1663-1712.

* Berk, J.B. and Green, R.C., 2004, Mutual fund flows and performance in rational markets. *Journal of Political Economy*, 112(6), pp.1269-1295.

* Martin and Nagel, 2019, Market Efficiency in the Age of Big Data, NBER Working Paper 26586

Testing Asset Pricing Models: Overview

Cochrane, chapters 7, 12, 14, 15, 16

HL, chapter 10

* CLM chapters 6 and 7

Cross-sectional anomalies: the debate

Fama, Eugene and Kenneth French, 1992, The cross-section of expected stock returns, *Journal of Finance* 47, 427-465

Fama, Eugene and Kenneth French, 1993, Common risk factors in the returns on stocks and bonds, *Journal of Financial Economics* 33, 3-56

* Lakonishok, Josef, Andrei Shleifer, and Robert Vishny, 1994, Contrarian investment, extrapolation, and risk, *Journal of Finance* 49, 1541-1578.

Daniel, Kent and Sheridan Titman, 1997, Evidence on the characteristics of cross-sectional variation in stock returns, *Journal of Finance* 52, 1-33

Cochrane, section 20.2

* Fama, Eugene and Kenneth French, 1995, Size and book-to-market factors in earnings and returns, *Journal of Finance* 50, 131-155

CLM section 6.6

* Heaton, John and Deborah Lucas, 2000, Portfolio Choice and Asset Prices: The Importance of Entrepreneurial Risk, *Journal of Finance* 55(3), 1163-1198

* Fama, Eugene and Kenneth French, 1996, Multifactor explanations of asset pricing anomalies, *Journal of Finance* 51, 55-84

* DeBondt, Werner and Richard Thaler, 1985, Does the stock market overreact?, *Journal of Finance* 40, 793-808.

Jegadeesh, Narasimhan and Sheridan Titman, 1993, Returns to buying winners and selling losers: Implications for stock market efficiency, *Journal of Finance* 48, 65-91

* Jegadeesh, N., Titman, S., 2001, Profitability of momentum strategies: an evaluation of alternative explanations. *Journal of Finance* 56, 699-720

* Chan, Louis, Narasimhan Jegadeesh, and Josef Lakonishok, 1996, Momentum strategies, *Journal of Finance* 51, 1681-1713

* Hong, Harrison and Jeremy Stein, 1999, A Unified Theory of Underreaction, Momentum Trading, and Overreaction in Asset Markets, *Journal of Finance* 54, 2143-2184

* Hong, Harrison, Terrence Lim, and Jeremy Stein, 2000, Bad news travels slowly: Size, analyst coverage, and the profitability of momentum strategies, *Journal of Finance* 55, 265-295

* Moskowitz, Tobias and Mark Grinblatt, 1999, Do Industries Explain Momentum?, *Journal of Finance* 54, 1249-1290

Ang, Andrew, Bob Hodrick, Yuhang Xing, and Xiaoyan Zhang, 2009, "High Idiosyncratic Volatility and Low Returns: International and Further U.S. Evidence" *Journal of Financial Economics*, 91, 1, 1-23

Frazzini, Andrea and Lasse Heje Pedersen, 2014, "Betting Against Beta,". *Journal of Financial Economics*

* Novy-Marx, R. and Velikov, M., 2015. A taxonomy of anomalies and their trading costs. *Review of Financial Studies*, 29(1), pp.104-147

* Novy-Marx, Robert and Velikov, Mihail, 2018, Betting Against Betting Against Beta. Working Paper. University of Rochester.

Stambaugh RF, Yu J, Yuan Y., 2015, Arbitrage asymmetry and the idiosyncratic volatility puzzle. *Journal of Finance* 70(5), 1903-48.

Fama, Eugene F., and Kenneth R. French, 2015, "A five-factor asset pricing model." *Journal of Financial Economics* 116.1, 1-22.

* Fama, Eugene F., and Kenneth R. French, 2016, "Dissecting anomalies with a five-factor model." *Review of Financial Studies* 29.1, 69-103.

McLean, R. David, and Jeffrey Pontiff, 2016, Does academic research destroy stock return predictability? *Journal of Finance* 71.1: 5-32.

Hou, K., Xue, C., & Zhang, L., 2015, Digesting anomalies: An investment approach. *Review of Financial Studies*, 28(3), 650-705.

* Hou, K., Xue, C. and Zhang, L., 2018. Replicating anomalies, forthcoming. *Review of Financial Studies*.

* Hou, K., Mo, H., Xue, C. and Zhang, L., 2018. Which factors? *Review of Finance*, 23(1), pp.1-35.

Conditional asset pricing: tests and critiques

Jagannathan, Ravi and Zhenyu Wang, 1996, The conditional CAPM and the cross-section of stock returns. *Journal of Finance* 51, 3-53

* Lettau, Martin and Sydney Ludvigson, 2001, Resurrecting the (C)CAPM: A cross-sectional test when risk premia are time varying, *Journal of Political Economy* 109, 1238 – 1287

Cochrane, chapters 8, 9, and 13

Lewellen, J., and S. Nagel, 2006, The Conditional CAPM Does Not Explain Asset Pricing Anomalies, *Journal of Financial Economics*, November

Liquidity and liquidity risk in asset pricing

Amihud, Yakov, Haim Mendelson, and Lasse H. Pedersen, 2005, Liquidity and asset prices, *Foundations and Trends in Finance* 1(4), 269–364.

Pastor, Lubos, and Robert F. Stambaugh, 2003, Liquidity risk and expected stock returns, *Journal of Political Economy* 111, 642–685.

* Acharya, Viral V., and Lasse H. Pedersen, 2005, Asset pricing with liquidity risk, *Journal of Financial Economics* 77, 375–410.

* Sadka, Ronnie, 2006, Momentum and post-earnings-announcement drift anomalies: The role of liquidity risk, *Journal of Financial Economics* 80, 309–349.

* Franzoni, Francesco, Eric Nowak, and Ludovic Phalippou, 2012, “Private equity performance and liquidity risk”, *Journal of Finance* 67(6), 2341-2373

Limits to arbitrage and Fire Sales

Theory

Gromb, D., and D. Vayanos, 2010, Limits of Arbitrage: The State of the Theory, *Annual Review of Financial Economics* 2, 251–275.

Shleifer, Andrei, and Robert W. Vishny 1997, The Limits of Arbitrage, *Journal of Finance* 52(1), 35-55.

*Shleifer, Andrei and Robert Vishny, 1992, Liquidation values and debt capacity: a market equilibrium approach, *Journal of Finance*, 47, 343–366.

Shleifer, Andrei, and Robert W. Vishny, 2011, Fire Sales in Finance and Macroeconomics, *Journal of Economic Perspectives* 25(1), 29–48.

*Gromb, Denis, and Dimitri Vayanos, 2002, Equilibrium and Welfare in Markets with Financially Constrained Arbitrageurs, *Journal of Financial Economics* 66, 361-407.

*Brunnermeier, Markus K. and Dilip Abreu, 2002, Synchronization Risk and Delayed Arbitrage, *Journal of Financial Economics*, 66, 341-360.

Brunnermeier, Markus K., and Lasse H. Pedersen, 2009, Market Liquidity and Funding Liquidity, *Review of Financial Studies* 22, 2201-2238.

*Duffie Darrell, 2010, Presidential Address: Asset Price Dynamics with Slow-Moving Capital, *Journal of Finance* 65(4), 1236-1267.

Empirical Evidence

*Mitchell, Mark, Todd Pulvino, and Erik Stafford, 2002, Limited arbitrage in equity markets, *The Journal of Finance* 57.2, 551-584.

Mitchell M, L. Pedersen, and T. Pulvino, 2007, Slow moving capital, *American Economic Review Papers and Proceedings*, 97, pp. 215–220

Brunnermeier, Markus K., and Stefan Nagel, 2004, Hedge Funds and the Technology Bubble, *Journal of Finance* 59(5), 2013-2040.

Ben-David, I., Francesco Franzoni, and Rabih Moussawi, Hedge fund stock trading in the financial crisis of 2007-2009”, *Review of Financial Studies*, 2012, 25(1), pp. 1-54

*Aragon, George O., and Phillip Strahan, 2012, Hedge funds as liquidity providers: Evidence from the Lehman bankruptcy, *Journal of Financial Economics* 103, 570 – 587.

Coval, Joshua, and Erik Stafford, 2007, Asset Fire Sales (and Purchases) in Equity Markets, *Journal of Financial Economics* 86.

* Ben-David, I., Francesco Franzoni, and Rabih Moussawi, 2018, Do ETFs increase volatility? *Journal of Finance*, 73.6: 2471-2535.

*Greenwood, Robin, and David Thesmar, 2011, "Stock price fragility." *Journal of Financial Economics* 102.3: 471-490.

*Anton, Miguel, and Christopher Polk, 2014, "Connected stocks." *Journal of Finance* 69.3: 1099-1127.

He, Z., Kelly, B. and Manela, A., 2017. Intermediary asset pricing: New evidence from many asset classes. *Journal of Financial Economics*, 126(1), pp.1-35.

* Adrian, T., Etula, E. and Muir, T., 2014. Financial intermediaries and the cross-section of asset returns. *Journal of Finance*, 69(6), pp.2557-2596.

Fleckenstein, M., Longstaff, F.A. and Lustig, H., 2014. The TIPS-treasury bond puzzle. *Journal of Finance*, 69(5), 2151-2197.