# THE SIMULTANEITY OF FINANCING AND INVESTMENT DECISIONS IN THE PRESENCE OF CORPORATE GOVERNANCE FACTORS

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DOCTOR OF PHILOSOPHY UNIVERSITI UTARA MALAYSIA February 2015

# THE SIMULTANEITY OF FINANCING AND INVESTMENT DECISIONS IN THE PRESENCE OF CORPORATE GOVERNANCE FACTORS

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Thesis Submitted to
Othman Yeop Abdullah Graduate School of Business,
Universiti Utara Malaysia
In Fulfillment of the Requirements for Degree of Doctor of Philosophy

### **ABSTRACT**

This study investigates the interdependence between financing and investment decisions in the presence of corporate governance factors of three hundred non-financial companies listed on the Main Market of Bursa Malaysia. The sample is chosen randomly over a five-year period from 2007 to 2011. Using a panel data methodology, the regression models are derived based on the simultaneous equation modeling. Six factors of corporate governance mechanisms are identified: family ownership, government ownership, state ownership, managerial ownership, board size and board composition. This is among the earliest studies in Malaysia to consider simultaneity of financing and investment decisions by adopting 2SLS estimation technique. The major contributions of this study are: first, financing and investment decisions must be determined simultaneously. The results show that both investment and financing have positive impacts on each other. This positive effect is significantly stronger for firms with highgrowth opportunities than those with low-growth opportunities. Second, government link investment companies (GLICs) affect leverage positively but affect investment opportunities negatively. For that reason, the government should monitor GLICs' investments as firms controlled by GLICs have lower investment opportunities. This is especially true for low-growth firms. In contrast to GLICs, state ownership leads to higher investment opportunities especially for low growth firms. Third, managers of high-growth firms are doing their job more effectively compared to those of low growthfirms in making investment decision. Fourth, independent directors do not play a significant role regarding investment policy especially for low growth firms. Finally, since profitability is significant for all financing models, the finding of this study supports pecking order theory.

Keywords: financing, investment, corporate governance, 2SLS

### **ABSTRAK**

Kajian ini meneliti keberkaitan di antara keputusan pembiayaan dan pelaburan dengan faktor tadbir urus korporat terhadap tiga ratus buah syarikat bukan kewangan yang disenaraikan di pasaran utama Bursa Malaysia. Sampel kajian dipilih secara rawak untuk tempoh lima tahun dari 2007 hingga 2011. Kaedah data panel digunakan dalam kajian ini yang membolehkan model regresi dihasilkan melalui pemodelan persamaan serentak. Terdapat enam faktor tadbir urus korporat yang dikenal pasti iaitu pemilikan keluarga, pemilikan kerajaan, pemilikan negara, pemilikan pengurusan, saiz dan komposisi ahli lembaga pengarah. Kajian ini merupakan kajian yang terawal dilakukan di Malaysia yang melihat kepada keserentakan keputusan pembiayaan dan pelaburan menggunakan teknik kuasa dua terkecil dua peringkat (2SLS). Dapatan kajian menunjukkan keputusan pembiayaan dan pelaburan perlu dilakukan secara serentak. Hal ini kerana keputusan menunjukkan kedua-dua pelaburan dan pembiayaan mempunyai kesan positif antara satu sama lain. Kesan positif berkenaan lebih kuat bagi syarikat-syarikat yang menunjukkan peluang pertumbuhan yang tinggi berbanding syarikat yang mempunyai peluang pertumbuhan yang rendah. Seterusnya, Syarikat Pelaburan Berkaitan Kerajaan (GLIC) menunjukkan kesan positif terhadap leveraj tetapi turut memberikan kesan negatif terhadap nilai pelaburan. Oleh itu, kerajaan perlu memantau pelaburan GLIC kerana syarikat yang dikawal oleh GLIC mempunyai peluang pelaburan yang rendah terutama syarikat yang menunjukkan pertumbuhan yang rendah. Sebaliknya, pemilikan negeri membawa kepada peluang-peluang pelaburan yang lebih tinggi terutama bagi syarikat yang mempunyai pertumbuhan rendah. Dapatan seterusnya menunjukkan para pengurus di syarikat pertumbuhan tinggi melakukan tugas mereka dengan lebih berkesan dalam membuat keputusan pelaburan berbanding pengurus di syarikat pertumbuhan rendah. Selain itu, para pengarah bebas tidak memainkan peranan yang penting berhubung dasar pelaburan, khususnya untuk syarikat pertumbuhan rendah. Akhir sekali, kerana keuntungan adalah penting untuk semua model pembiayaan, maka dapatan kajian ini menyokong pecking order theory.

**Kata Kunci:** pembiayaan, pelaburan, tadbir urus korporat, 2SLS

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### TABLE OF ABBREVIATIONS

IOSInvestment Opportunity SetGDPGrowth Domestic Product

NPV Net Present Value
OLS Ordinary Least Square
2SLS Two Stage Least Square

GMM Generalized Method of Moments

GLICs Government Linked-Investment Companies

GLCs Government Linked Companies MAS Berhad Malaysia Airlines System Berhad

EPF Employees Provident Fund KNB Khazanah Nasional Berhad

KWAP Kumpulan Wang Amanah Pencen LTAT Lembaga Tabung Angkatan Tentera

LTH Lembaga Tabung Haji

KKD Kementerian Kewangan Diperbadankan

PNB Permodalan Nasional Berhad SOEs State Owned Enterprises 3SLS Three Stage Least Square IV Instrumental Variables NDTS Non-Debt Tax Shields VIF Variance Inflation Factor

FE Fixed Effect
RE Random Effect

LM Breusch-Pagan Lagrangian Multiplier

CW Cook-Weisberg BP Breusch-Pagan

EBIT Earnings Before Interest and Tax

LTD Long Term Debt

### **CHAPTER ONE**

### INTRODUCTION

### 1.0 Introduction

This chapter starts with section 1.1 which provides the background of the study. Section 1.2 presents problem statement. Section 1.3 discusses research questions. Research objectives are discussed in section 1.4. In section 1.5, the scope of the study is examined. The significance and contribution of the study are explained in section 1.6. This chapter ends with the structure of the thesis in section 1.7.

### 1.1 Background of the Study

The importance of corporate firms in generating a country's higher productivity and better economic growth is undeniable in today's globalization era. To play the role, the firms' managers must ensure that their corporate funds and resources are utilized efficiently so that they can be transformed into productive activities. Since managers must always adopt actions that work in favor of the interest of the shareholders, they must only invest in projects that promote greater productivity and efficiency. Such projects usually need considerable investments in current technologies, building development and promotion of products. It is the responsibility of the firm's corporate finance department to manage these financing and investment decisions.

There are many alternatives that can be employed by firms to fund or finance their investments. One of them is debt. Together with equity and retained earnings, debt is definitely among the top capital structure elements of the firm. Financial leverage is the common term used to describe the debt level employed to pay for firm assets and

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### REFERENCES

- Abdullah, S.N. (2004). Board composition, CEO Duality and Performance among Malaysian Listed Companies. *Corporate Governance*, 4(4), 47-61.
- Ab Razak, N.H., Ahmad, R., & Aliahmed, H.J. (2008). Government Ownership and Performance: An Analysis of Listed Companies in Malaysia. *Corporate Ownership Control*, 6(2), 434-442.
- Abor, J. (2007). Corporate Governance and Financing Decisions of Ghanaian Listed Firms. *Corporate Governance*, 7(1), 83-92.
- Abor, J. (2008). Agency Theoretic Determinants of Debt Levels: Evidence from Ghana. *Review of Accounting and Finance*, 7(2), 183–192.
- Abor, J., Bokpin, G.A., & Fiawoyife, E. (2011). Taxes and Corporate Borrowing: Empirical Evidence from Selected African Countries. *Journal of African Business*, 12, 287–303.
- Aghion, P., & Howitt, P. (2009). The Economics of Growth. Cambridge: The MIT Press.
- Ahmed Sheikh, N., & Wang, Z. (2011). Determinants of Capital Structure: An Empirical Study of Firms in Manufacturing Industry of Pakistan. *Managerial Finance*, 37(2), 117–133.
- Ahn, S., & Denis, D.J. (2004). Internal Capital Markets and Investment Policy: Evidence from Corporate Spinoffs. *Journal of Financial Economics*, 71, 489–516.
- Ahn, S., Denis, D.J., & Denis, D.K. (2006). Leverage and Investment in Diversified Firms. *Journal of Financial Economics*, 79, 317–337.
- Aivazian, V.A., Ge, Y., & Qiu, J. (2005). The Impact of Leverage on Firm Investment: Canadian Evidence. *Journal of Corporate Finance*, 11, 277-291.

- Akerloff, G.A. (1970). The Market for Lemons: Quality Uncertainty and the Market Mechanism. *The Quarterly Journal of Economics*, 84(3), 488-500.
- Akhtar, S., & Oliver, B. (2009). The Determinants of Capital Structure for Japanese Multinational and Domestic Corporations. *International Review of Finance*, 9 (1), 1-26.
- Aljifri, K., & Moustafa, M. (2007). The Impact of Corporate Governance Mechanisms on the Performance of UAE Firms: An Empirical Analysis. *Journal of Economic and Administrative Sciences*, 23(2), 71-93.
- Allen, D.E., & Mizuno, H. (1989). The Determinants of Corporate Capital Structure: Japanese Evidence. *Applied Economics*, 21, 569–585.
- Al-Najjar, B., & Hussainey, K. (2009). The Association between Dividend Payout and Outside Directorship. *Journal of Applied Accounting Research*, 10(1), 4-19.
- Al-Najjar, B., & Hussainey, K. (2011). Revisiting the Capital-Structure Puzzle: UK Evidence. *Journal of Risk Finance*, 12(4), 329-338.
- Amran, N.A., & Ahmad, A.C. (2010). Corporate Governance Mechanisms and Performance: Analysis of Malaysian Family and Non-Family Controlled Companies. *Journal of Modern Accounting and Auditing*, 6(2), 1-15.
- Anderson, W.H.L. (1964). Corporate Finance and Fixed Investment. An Econometric Study, Boston: Harvard University Press.
- Anderson, D., Francis, J.R., & Stokes, D.J. (1993). Auditing Directorship and the Demand for Monitoring. *Journal of Accounting and Public Policy*, 12, 353–375.
- Anderson, R.C., & Reeb, D.M. (2003). Founding Family Ownership, Corporate Diversification and Firm Leverage. *Journal of Law and Economics*, 46(2), 653–684.

- Anderson, R., Mansi, S., & Reeb, D. (2004). Board Characteristics, Accounting Report Integrity and the Cost of Debt. *Journal of Accounting and Economics*, 37(3), 315-342.
- Ang, J.S., & Ding, D.K. (2006). Government Ownership and the Performance of Government-Linked Companies: The Case of Singapore. *Journal of Multinational Financial Management*, 16, 64-88.
- Antonakis, N. (1987). Investment Behaviour of Firms: A Critical Evaluation of Some Important Contributions. Spoudai, 37(4), 615-633.
- Atiase, R. (1985). Predisclosure Information, Firm Capitalization, and Security Price Behavior around Earnings Announcements. *Journal of Accounting Research*, 23, 21-36.
- Bah, R., & Dumontier, P. (2001). R&D Intensity and Corporate Financial Policy: Some International Evidence. *Journal of Business Finance and Accounting*, 28(5), 671-692.
- Bajaj, M., Chan, Y.S., & Dasgupta, S. (1998). The Relationship between Ownership,Financing Decisions and Firm Performance: A Signaling Model. *International Economic Review*, 39(3), 723-44.
- Baker, M., & Wurgler, J. (2000). The Equity Share in New Issues and Aggregate Stock Returns. *The Journal of Finance*, 55, 2219-2257.
- Baker, M., & Wurgler, J. (2002). Market Timing and Capital Structure. *Journal of Finance*, 57, 1-32.
- Baldwin, J., Gellatly, G., & Gaudreault, V. (2002). Financing Innovation in New Small Firms: New Evidence from Canada. Statistics Canada Analytical Studies, Working Paper.

- Barclay, M.J., Smith Jr., C.W., & Morellec, E. (2006). On the Debt Capacity of Growth Options. *Journal of Business*, 79(1), 37–59.
- Bathala, C.T., & Rao, R.P. (1995). The Determinants of Board Composition: An Agency Theory Perspective. *Managerial and Decision Economics*, 16, 59-69.
- Bayless, M., & Chaplinsky, S. (1996). Is there a Window of Opportunity for Seasoned Equity Issuance?. *The Journal of Finance*, 51(1), 253-278.
- Baysinger, B.D., Kosnik, R.D., & Turk, T.A. (1991). Effects of Board and Ownership Structure on Corporate R&D Strategy. *The Academy of Management Journal*, 34(1), 205-214.
- Bekaert, G., & Harvey, C.R. (2003). Emerging Markets Finance. *Journal of Empirical Finance*, 10, 3 55.
- Belkaoui, A.R. (1999). Capital Structure: Determination, Evaluation and Accounting. Westport, Conn.: Quorum.
- Berger, P.G., & Ofek, E. (1995). Diversification's Effect on Firm Value. *Journal of Financial Economics*, 37, 39 65.
- Berger, P.G., Ofek, E., & Reeb, D. (1997). Managerial Entrenchment and Capital Structure Decisions. *Journal of Finance*, 52(4), 1411-1438.
- Bernanke, B., & Gertler, M. (1990). Financial Fragility and Economic Performance. *Quarterly Journal of Economics*, 105(1), 87-114.
- Bischoff, C.W. (1971a). Business Investment in the 1970's: A Comparison of Models.

  \*Brookings Papers on Economic Activity, 1.\*
- Bischoff, C.W. (1971b). The Effect of Alternative Lag Distributions. In Form, G. (Ed.). Tax Incentives and Capital Spending, Washington, D.C: The Brookings Institution.

- Blanchard, O.J., Rhee, C., & Summers, L. (1993). The Stock Market, Profit and Investment. *The Quarterly Journal of Economics*, 108(1), 115-36.
- Bojnec, S., & Latruffe, L. (2007). Investment of Slovenian Farms in the Transition Context. In Agricultural Economics and Transition: What was Expected, What We Observed, The Lessons Learned? EAAE Seminar. Budapest: Corvinus University.
- Booth, L., Aivazian, V.A., Kunt-Demiguc, & Maksimovic, V. (2001). Capital Structure in Developing Countries. *Journal of Finance*, 56.7-130.
- Booth, L., & Cleary, S. (2006). Cash Flow Volatility, Financial Slack and Investment Decisions. EFMA Madrid Meetings.
- Boyle, G.W., & Eckhold, K.R. (1997). Capital Structure Choice and Financial Market Liberalization: Evidence from New Zealand. *Applied Financial Economics*, 7(4), 427-437.
- Bradley, M., Jarrel, G.A., & Han Kim, G.A. (1984). On the Existence of an Optimal Capital Structure: Theory and Evidence. *The Journal of Finance*, 39, 857–80.
- Brailsford, T., Oliver, B.R., & Pua, L.H. S. (2002). On the Relation between Ownership Structure and Capital Structure. *Accounting and Finance*, 42, 1-26.
- Brainard, W.C., & Tobin, J. (1968). Pitfalls in Financial Model Building. *The American Economic Review*, 58(2), 99-122.
- Brandt, L., & Li H. (2003). Bank Discrimination in Transition Economies: Ideology, Information and Incentives?. *Journal of Comparative Economics*, 31, 387–413.
- Brealey, R.A., Myers, S.C., & Allen, F. (2006). Principles of Corporate Finance. Irwin: McGraw-Hill.
- Brennan, M.J., & Schwartz, E.S. (1978). Structure. *Journal of Business*, 51 (1) 103-114.

- Brickley, J.A., Coles, J.L., & Jarrell, G. (1997). Leadership Structure: Separating the CEO and Chairman of the Board. *Journal of Corporate Finance*, 3, 189–220.
- Brooks, C. (2008). Introductory Econometrics for Finance. New York: Cambridge University Press.
- Buck, T., Liu, X., & Skovoroda, R. (2008). Top Executive Pay and Firm Performance in China. *Journal of International Business Studies*, 39(5), 833-850.
- Burkart, M., Panunzi, F., & Shleifer, A. (2003). Family Firms. *Journal of Finance*, 58, 2167–2210.
- Bushee, B.J. (1998). The Influence of Institutional Investors on Myopic R&D Investment Behavior. *The Accounting Review*, 73(3), 305–333.
- Cantor, R. (1990). Effects of Leverage on Corporate Investment and Hiring Decisions. *Federal Bank of New York Quarterly Review*, 31-41.
- Caves, D.W., & Christensen, L.R. (1980). The Relative Efficiency of Public and Private Firms in a Competitive Environment: The Case of Canadian Railroads. *The Journal of Political Economy*, 88 (5), 958-976.
- Cespedes, J., Gonzalez, M., & Molina, C.A. (2010). Ownership and Capital Structure in Latin America. *Journal of Business Research*, 63(3), 248-254.
- Chang, S.J. (2003). Ownership Structure, Expropriation and Performance of Group-Affiliated Companies in Korea. *Academy of Management Journal*, 46, 238–253
- Chang, X., Dasgupta, S., & Hillary, G. (2006). Analyst Coverage and Financing Decisions. *The Journal of Finance*, 61(6), 3009-3048.
- Chen, C., & Steiner, T. (1999). Managerial Ownership and Agency Conflict: A Non Linear Simultaneous Approach. *Journal of Banking and Finance*, 897-924.

- Chen, Z., Cheung, T., Stouraitis, A., & Wong, A. (2005). Ownership Concentration, Firm Performance, and Dividend Policy in Hong Kong. *Pacific–Basin Finance Journal*, 13(4), 431–449.
- Chevalier, J. (2004). What do we Know about Gross Subsidization? Evidence from Merging Firms. *The B.E. Journals in Economic Analysis and Policy*, 4 (1), 1-29.
- Childs, P.D., & Triantis, A.J. (2000). Dynamic R&D Investment Policies.

  Management Science, 45(10), 1359-1377.
- Childs, P.D., Mauer, D.C., & Ott, S.H. (2005). Interactions of Corporate Financing and Investment Decisions: The Effects of Agency Conflicts. *Journal of Financial Economics*, 76(3), 667-690.
- Chiou, C., & Su, R. (2007). On the Relation of Systematic Risk and Accounting Variables. *Managerial Finance*, 33(8), 517 533.
- Chirinko, R.S., & Singha, A.R. (2000). Testing Static Tradeoff against Pecking Order Models of Capital Structure: A Critical Comment. *Journal of Financial Economics*, 58, 417-425.
- Cho, M.H. (1998). Ownership Structure, Investment and the Corporate Value: An Empirical Analysis. *Journal of Financial Economics*, 47(1), 103-121.
- Choe, H., Masulis, R.W., & Nanda, V. (1993). Common Stock Offerings across the Business Cycle: Theory and Evidence. *Journal of Empirical Finance*, 1(1), 3-31.
- Chowdhury, G., & Miles, D. (1989). Modeling Companies' Debt and Dividend Decisions with Company Accounts Data. *Applied Economics*, 21, 1483-1507.
- Chowdhury, G., Green, C.J., & Miles, D. (1994). UK Companies' Short-term Financial Decisions: Evidence from Company Accounts Data. *The Manchester School of Economics and Social Studies*, 62, 395 411.

- Chu, E.Y., & Cheah, K.G. (2004). The Determinants of Ownership Structure in Malaysia. Singapore: The Fourth Asia Pacific Interdisciplinary Research in Accounting Conference.
- Chu, E.Y., & Cheah, K.G. (2006). Does Ownership Structure Matter? Evidence from Malaysian Equity Market. *Corporate Ownership and Control*, 4(1), 77-90.
- Claessens, S., Djankov, S., Fan, J.P.H., & Lang, L.H.P. (2002). Disentangling the Incentive and Entrenchment Effects of Large Shareholdings. *Journal of Finance*, 57, 2741-2771.
- Claessens, S., & Fan, J.P.H. (2002). Corporate Governance in Asia: A Survey. *International Review of Finance*, 3(2), 71-103.
- Coles, J.W., McWilliams, V.B., & Sen, N. (2001). An Examination of the Relationship of Governance Mechanisms to Performance. *Journal of Management*, 27(1), 23-50.
- Colombo, E. (2001). Determinants of Corporate Capital Structure: Evidence from Hungarian Firms. *Applied Economics*, 33, 1689-1701.
- Comment, R., Jarrell, G. (1995). Corporate Focus and Stock Returns. *Journal of Financial Economics*, 37, 67–87.
- Conyon, M.J., & Peck, S.I. (1998). Board Control, Remuneration Committees and Top Management Compensation. *Academy of Management Journal*, 41(2), 146-157.
- Cornelli, F., Portes, R., & Schaffer, M.E. (1996). The Capital Structure of Firms in Central and Eastern Europe. CEPR Discussion, 1-35.
- Cosh, A., Fu, X., & Hughes, A. (2007). Management Characteristics, Managerial Ownership and Innovative Efficiency in High-Technology Industry. SLPTMD Working Paper Series 007, Oxford.

- Croci, E., & Petmezas, D. (2010). Minority Shareholders' Wealth Effects and Stock Market Development: Evidence from Increase-in-Ownership M&As. *Journal of Banking and Finance*, 34, 681-694.
- Croci, E., Doukas, J.A., & Gonenc, H. (2011). Family Control and Financing Decisions. *European Financial Management*, 17(5), 860-897.
- Cronqvist, H., & Nilsson, M. (2003). Agency Costs of Controlling Minority Shareholders. *The Journal of Financial and Quantitative Analysis*, 38(4), 695–719.
- Cull, R., Xu, L.C., & Zhu, T. (2009). Formal Finance and Trade Credit during China's Transition. *Journal of Financial Intermediation*, 18, 173–192.
- Dang, V.A. (2007). Leverage, Debt Maturity and Firm Investment: An Empirical Analysis. The Financial Management Association European Conference and the Financial Management Association.
- David, P., O'Brien, J.P., & Yoshikawa, T. (2008). The Implications of Debt Heterogenety for R&D Investment and Firm Performance. *American Management Journal*, 51(1), 165-181.
- De Jong, A., Kabir, R., & Nguyen, T. (2008). Capital Structure around the World: The Roles of Firm and Country Specific Determinants. *Journal of Banking and Finance*, 32, 1954-1969.
- Deakin, S., & Hughes, A. (1997). Comparative Corporate Governance: An Interdisciplinary Agenda, in Enterprise and Community: New Directions in Corporate Governance. Deakin, S. and Hughes, A. (Eds.), Blackwell Publishers, Oxford, UK.
- DeAngelo, H., & Masulis, R.W. (1980). Optimal Capital Structure under Corporate and Personal Taxation. *Journal of Financial Economics*, 8, 3-29.

- Deesomask, R., Paudyal, K., & Pescetto, G. (2004). The Determinants of Capital Structure: Evidence from the Asia Pacific Region. *Journal of Multinational Financial Management*, 14 (4-5), 387-405.
- Delcoure, N. (2007). The Determinants of Capital Structure in Transitional Economies. *International Review of Economics and Finance*, 16(3), 400-415.
- Demsetz, H., & Lehn, K. (1985). The Structure of Corporate Ownership: Causes and Consequences. *Journal of Political Economy*, 93, 1155–1177.
- Demsetz, H., & Villalonga, B. (2001). Ownership Structure and Corporate Performance. *Journal of Corporate Finance*, 7, 209–233.
- Denis, D.J., & Denis, D.K. (1993). Managerial Discretion, Organizational Structure and Corporate Performance: A Study of Leveraged Recapitalizations. *Journal of Accounting and Economics*, 16(1-3), 209-236.
- Dewenter, K.L., & Malatesta, P.H. (2001). State-Owned and Privately Owned Firms: an Empirical Analysis of Portability, Leverage, and Labor Intensity. *American Economic Review*, 91, 320–334.
- Donaldson, G. (1961). Corporate Debt Capacity: A Study of Corporate Debt Policy and the Determinants of Corporate Debt Capacity. Boston: Division of Research, Harvard Business School.
- Dornbusch, R., & Fischer, S. (1990). Macroeconomics. Sydney: McGraw-Hill Publishing Company.
- Downs, T.W. (1993). Corporate Leverage and Nondebt Tax shields: Evidence on Crowding-out. *The Financial Review*, 28(4), 549-583.
- Driffield, N., Mahambare, V., & Pal, S. (2007). How does Ownership Structure Affect Capital Structure and Firm Value? *Economics of Transition*, 15(3), 535–573.

- Duesenberry, J.S. (1958). Business Cycles and Economic Growth. New York: McGraw-Hill.
- Dwivedi, N., & Jain, A.K. (2005). Corporate Governance and Performance of Indian Firms: The Effect of Board Size and Ownership. *Employee Responsibilities and Rights Journal*, 17(3), 161-172.
- Eddleston, K.A., & Kellermanns, F.W. (2007). Destructive and Productive Family Relationships: A Stewardship Theory Perspective. *Journal of Business Venturing*, 22(4), 545–565.
- Edmans, A. (2009). Block holder Trading, Market Efficiency and Managerial Myopia. *The Journal of Finance*, 6, 2481-2513.
- Ellul, A. (2008). Control Motivations and Capital Structure Decisions. Working Paper, Kelley School of Business, Indiana University.
- Elsas, R., Flannery, M., & Garfinkel, J. (2006). Major Investment, Firm Financing Decisions and Long Run Performance. University of Florida, Working Paper.
- Elsas, R., Flannery, M., & Garfinkel, J. (2011). Financing Major Investments:

  Information about Capital Structure Decisions. Singapore Management
  University seminar.
- Evans, M.K. (1967). A Study of Industry Investment Decisions. *Review of Economics* and Statistics, 49, 151-164.
- Faccio, M., Lang, L.H.P., & Young, L. (2001). Dividends and Expropriation. *The American Economic Review*, 91(1), 54-78.
- Faccio, M., & Lang, L.H.P. (2002). The Ultimate Ownership of Western European Corporations. *Journal of Financial Economics*, 65, 365–395.
- Fama, E.F., & French, K.R. (1993). Common Risk Factors in the Return on Bonds and Stocks. *Journal of Financial Economics*, 33(1), 3-56.

- Fama, E.F., & French, K.R. (2002). Testing Trade-off and Pecking Order Predictions about Dividends and Debt. *The Review of Financial Studies*, 15(1), 1-33.
- Fama, E.F., & Jensen, M.C. (1983). Separation of Ownership and Control. *Journal of Law Economics*, 26(2), 301–325.
- Fama, E.F., & Jensen, M. (1985). Organizational Forms and Investment Decisions. *Journal of Financial Economics*, 14, 101-119.
- Fazzari, M., Hubbard, R.G., Peterson, B., Blinder, S., & Poterba, M. (1988).
  Financing Constraints and Corporate Investment. *Brooking Papers on Economic Activity*, 1, 141-206.
- Firth, M., Lin, C., & Wong, S. M. L. (2008). Leverage and Investment under a State-Owned Bank Lending Environment: Evidence from China. *Journal of Corporate Finance*, 14, 642–653.
- Firth, M., Lin, C., Liu, P., & Wong, S.M.L. (2009). Inside the Black Box: Bank Credit Allocation in China's Private Sector. *Journal of Banking and Finance*, 33, 1144–1155.
- Francis, B., Hasan, I., Sharma, Z. (2011). Incentives and Innovation: Evidence from CEO Compensation Contracts. Working paper, Rensselaer Polytechnic Institute.
- Frank, M.Z., & Goyal, V.K. (2003). Testing the Pecking Order Theory of Capital Structure. *Journal of Financial Economics*, 67, 217–248.
- Frank, M.Z., & Goyal, V.K. (2007). Trade-Off and Pecking Order Theories of Debt.

  Handbook of Corporate Finance: Empirical Corporate Finance, 2, 1-82.
- Friend, I., & Hasbrouck, J. (1988). Determinants of Capital Structure. In Chen, A. (Ed.), *Research in Finance*, 7, 1-19.
- Friend, I., & Lang, L. (1988). An Empirical Test of the Impact of Managerial Self-Interest on Corporate Capital Structure. *Journal of Finance*, 43(2), 271-281.

- Fukuda, S., Kasuya, M., & Nakajimi, J. (2005). Bank Health and Investment: An Analysis of Unlisted Companies in Japan. CIRJE Discussion Papers.
- Galai, D., & Masulis, R.W. (1976). The Option Pricing Model and the Risk Factor of Stock. *Journal of Financial Economics*, 3, 53-81.
- Gallo, M.A., Tapies, J., & Cappuyns, K. (2004). Comparison of Family and Non Family Business: Financial Logic and Personal Preferences. *Family Business Review*, 17, 303-318.
- Gaver, J.J., & Gaver, K.M. (1993). Additional Evidence on the Association between the Investment Opportunity Set and Corporate Financing, Dividend and Compensation Policies. *Journal of Accounting and Economic*, 16, 125-160.
- Ghazali, N.A.M. (2010). Ownership Structure, Corporate Governance and Corporate Performance in Malaysia. *International Journal of Commerce and Management*, 20(2), 109-119.
- Gill, A., & Mathur, N. (2011). Board Size, CEO Duality and the Value of Canadian Manufacturing Firms. *Journal of Applied Finance & Banking*, 1(3), 1-13.
- Gompers, P., & Lerner, J. (2000). Money Chasing Deals? The Impact of Fund Inflows on Private Equity Valuation. *Journal of Financial Economics*, 55 (2), 281-325.
- Grabowski, H.G., & Mueller, D.C. (1972). Managerial and Stockholder Welfare Models of Firm Expenditures. *The Review of Economics and Statistics*, 54(1), 9-24.
- Graham, J.R. (1996). Debt and the Marginal Tax Rate. *Journal of Financial Economics*, 41, 41-73.
- Graham, J.R., & Harvey, C.R. (2001). The Theory and Practice of Corporate Finance: Evidence from the Field. *Journal of Financial Economics*, 61,187-243.

- Greenwald, B., Stiglitz, J.E., & Weiss, A. (1984). Informational Imperfections in Capital Markets and Macroeconomic Fluctuations. *The American Economic Review*, 74(2), 194-199.
- Griliches, Z., & Wallace, N. (1965). The Determinants of Investment Revisited. *International Economic Review*, 6, 311-329.
- Grossman, S.J., & Hart, O. (1980). Takeover Bids, the Free-Rider Problem and the Theory of the Corporation. *Bell Journal of Economics*, 11, 42-64.
- Grossman, S.J., & Hart, O. (1982). Corporate Financial Structure and Managerial Incentive. In McCall, (Ed.), The Economics of Information and Uncertainty. University of Chicago Press, Chicago.
- Gugler, K., Mueller, D., & Yurtogly, B. (2008). Insider Ownership, Ownership Concentration and Investment Performance: An International Comparison. *Journal of Corporate Finance*, 14, 688-705.
- Gunasekarage, A., Hess, K., & Hu, A. (2007). The Influence of the Degree of State

  Ownership and the Ownership Concentration on the Performance of Listed

  Chinese Companies. *Research in International Business and Finance*, 21(3),

  379-395.
- Hall, B.H., & Oriani, R. (2006). Does the Aarket Value R&D Investment by European Firms? Evidence from a Panel of Manufacturing Firms in France, Germany and Italy. *International Journal of Industrial Organization*, 24(5), 971-993.
- Hall, G., Hutchinson, P., & Michaelas, N. (2000). Industry Effects on the Determinants of Unquoted SMEs' Capital Structure. *International Journal of the Economics of Business*, 7(3), 297-312.
- Hall, R.E., & Jorgenson, D. (1967). Tax Policy and Investment Behavior. *The American Economic Review*, 57, 391-414.

- Harris, M., & Raviv, A. (1991). The Theory of Capital Structure. *The Journal of Finance*, 46(1), 297-355.
- Hasan, A., & Butt, S.A. (2009). Impact of Ownership Structure and Corporate Governance on Capital Structure of Pakistani Listed Companies. *International Journal of Business and Management*, 4(2), 50-57.
- Hashim, H.A., & Devi, S.S. (2008). Board Characteristics, Ownership Structure and Earnings Quality: Malaysian Evidence. *Research in Accounting in Emerging Economies*, 8, 97-123.
- Himmelberg, C.P., Hubbard, R.G., & Palia, D. (1999). Understanding the Determinant of Managerial Ownership and the Link between Ownership and Performance. *Journal of Financial Economic*, 53(3), 353-384.
- Himmelberg, C.P., Hubbard, G., & Love, I. (2004). Investor Protection, Ownership and the Cost of Capital. World Bank Policy Research, Working Paper.
- Hirota, S. (1999). Are Corporate Financing Decisions Different in Japan? An Empirical Study on Capital Structure. *Journal of the Japanese and International Economies*, 13, 201–229.
- Holmstrom, B. (1979). Moral Hazard and Observability. *Bell Journal of Economics*, 10, 74-91.
- Homaifa, G., Zietz, J., & Benkato, O. (1994). An Empirical Model of Capital Structure: Some New Evidence. *Journal of Business Finance and Accounting*, 21, 1-14.
- Hossain, M., Cahan, S.F., & Adams, M.B. (2000). The Investment Opportunity Set and the Voluntary Use of outside Directors: New Zealand Evidence. *Accounting and Business Research*, 30 (4), 263–273.

- Hovey, M. (2007). Leverage, Profitability and the Ownership Structures of Listed Firms in China. SSRN Working Paper.
- Huang, G., & Song, F.M. (2006). The Determinants of Capital Structure: Evidence from China. *Journal of Financial Economics Review*, 17(1), 14-36.
- Hussain, Q. (1995). Implication of Foreign Capital Inflows and Shareholder Concentration on Financial Sector: A Case Study of Indonesia. School of Economics and Law, University of Gothenburg, Sweden, mimeo.
- Hutchinson, M. (2002). An Analysis of the Association between Firms' Investment Opportunities, Board Composition and Firm Performance. *Asia Pacific Journal of Accounting and Economics*, 9, 17-39.
- Hutchinson, M., & Gul, F. (2004). Investment Opportunity Set, Corporate Governance Practices and Firm Performance. *Journal of Corporate Finance*, 10, 595-614.
- Ibrahim, H., & Samad, F.A. (2008). Agency Costs, Corporate Governance Mechanisms and Performance of Public Listed Family Firms in Malaysia.

  Unpublished Doctoral Thesis, University of Malaya.
- Jensen, G.R., Solberg, D.P., & Zorn, T. S. (1992). Simultaneous Determination of Insider Ownership, Debt and Dividend Policies. *Journal of Financial and Qualitative Analysis*, 27(2), 247-263.
- Jensen, M. (1986). Agency Costs of Free Cash Flow, Corporate Finance and Takeovers. *American Economic Review*, 76(2), 323-329.
- Jensen, M.C., & Meckling, W.H. (1976). Theory of the Firm: Managerial Behavior, Agency Costs and Ownership Structure. *Journal of Financial Economics*, 3(4), 305-360.

- Johnson, S.A. (2003). Debt Maturity and the Effect of Growth Opportunities and Liquidity Risk on Leverage. *Review of Financial Studies*, 16(1), 209-236.
- Jones, S., & Sharma, R. (2001). The Association between the Investment Opportunity

  Set and Corporate Financing and Dividend Decisions: Some Australian

  Evidence. *Managerial Finance*, 27(3), 48 64.
- Jong, A., Kabir, R., & Nguyen, T.T. (2008). Capital Structure around the World: The Roles of Firm and Country-Specific Determinants. *Journal of Banking and Finance*, 32, 1954–1969.
- Jorgenson, D.W. (1963). Capital Theory and Investment Behavior. *The American Economic Review*, 53, 247-59.
- Journal of Economic Literature, 9(4), 1111-1147.
- Judge, G.G., Hill, R.C., Griffiths, W.E., Lütkepohl, H., & Lee, T.C. (1988).

  Introduction to the Theory and Practice of Econometrics. New York: John Wiley and Sons.
- Jung, K., Kim, U.C., & Stulz, R. (1996). Timing, Investment Opportunities, Managerial Discretion and the Security Issue Decision. *Journal of Financial Economics*, 42(2), 159–186.
- Kajananthan, R. (2012). Effect of Corporate Governance on Capital Structure: Case of the Srilankan Listed Manufacturing Companies. *Journal of Arts, Science and Commerce*, 3(4), 63-71.
- Kajola, S.O. (2008). Corporate Governance and Firm Performance: The Case of Nigerian Listed Firms. *European Journal of Economics, Finance and Administrative Sciences*, 14, 16-27.

- Kamath, R.R. (1997). Long-Term Financing Decisions: Views and Practices of Financial Managers of NYSE Firms. *Financial Review*, 32(2), 331-356.
- Kang, J.K., & Stulz, R.M. (1996). How Different Is Japanese Corporate Finance? An Investigation of the Information Content of New Security Issues. *Review of Financial Studies*, 9(1), 109-139.
- Kay, J.A., & Thompson, D.J. (1986). Privatisation: A Policy in Search of a Rationale. *The Economic Journal*, 96(381), 13-32.
- Keasey, K., Thompson, S., & Wright, M. (1997). Introduction: The Corporate Governance Problem-Competing Diagnoses and Solutions. In Keasey, K., Thompson, S. and Wright, M. (Eds.), Corporate Governance: Economics, Management, and Financial Issues, Oxford University Press, Oxford, UK.
- Kellermanns, F.W., Eddleston, K.A. (2004). Feuding Families: when Conflict does a Family Firm Good. *Entrepreneurship Theory and Practice*, 28 (3), 209–228.
- Kennedy, P. (1998). A Guide to Econometrics. Cambridge, MA: MIT Press.
- Kester, C.W. (1986). Capital and Ownership Structure: A Comparison of United States and Japanese Manufacturing Corporations. *Financial Management*, 15, 5-16.
- Kim, W.S., & Sorenson, E.H. (1986). Evidence on the Impact of the Agency Costs of Debt on Corporate Debt Policy. *Journal of Financial and Qualitative Analysis*, 21 (2), 131-144.
- King, M.R., & Santor, E. (2008). Family Values: Ownership Structure, Performance and Capital Structure of Canadian Firms. *Journal of Banking and Finance*, 32, 2423-2432.

- Kirby, J.B., & Bollen, K.A. (2009). Using Instrumental Variable Tests to Evaluate Model Specification in Latent Variable Structural Equation Models. *Sociological Methodology*, 39(1), 327-355.
- Koch, A.R. (1943). The Financing of Large Corporations. New York: NBER.
- Kole, S.R., & Mulherin, J.H. (1997). The Government as a Shareholder: A Case from the United States. *The Journal of Law and Economics*, 40(1), 1-22.
- Kolay, M., Schallheim, J., & Wells, K. (2011). Do Non-Debt Tax Shields Matter for Debt Policy?. Working Paper, University of Utah.
- Korajczyk, R.A., & Levy, A. (2003). Capital Structure Choice: Macroeconomics Conditions and Financial Constraints. *Journal of Financial Economics*, 68, 75-109.
- Korajczyk, R.A., Lucas, D., & McDonald, R. (1990). Understanding Stock PriceBehavior around the Time of Equity Issue. In Hubbard, R.G. (Ed.), AsymmetricInformation, Corporate Finance and Investment. Chicago: University of ChicagoPress.
- Kuh, E. (1963). Capital Stock Growth: A Micro Econometric Approach. *Journal of Political Economy*, 72(6), 635-636.
- Kyereboah-Coleman, A. (2008). Corporate Governance and Firm Performance in Africa: A Dynamic Panel Data Analysis. *Journal for Studies in Economics and Econometrics*, 32(2), 1-24.
- Lally, M. (2004). The Fama-French Model, Leverage and the Modigliani-Miller Propositions. *The Journal of Financial Research*, (3), 341-349.
- Lang, L., Ofek, E., & Stulz, R.M. (1996). Leverage, Investment and Firm Growth. *Journal of Financial Economics*, 40, 3–29.

- Lau, Y.W., & Tong, C.Q. (2008). Are Malaysian Government Linked Companies (GLCs) Creating Value?. *International Applied Economics and Management Letters*, 1(1), 9–12.
- Le, T.V., & Buck, T. (2009). State Ownership and Listed Firm Performance: A Universally Negative Governance Relationship?. *Journal of Management and Governance*, Working Paper.
- Leary, M.T., & Roberts, M.R. (2010). The Pecking Order, Debt Capacity and Information Asymmetry. *Journal of Financial Economics*, 95, 332–355.
- Lease, R.C., McConnell, J.J., & Mikkelson, W.H. (1984). The Market Value of Differential Voting Rights in Closely Held Corporations. *Journal of Business*, 57, 443–467.
- Lefort, F., Urzua, F. (2008). Board Independence, Firm Performance and Ownership Concentration: Evidence from Chile. *Journal of Business Research*, 61, 615-622.
- Lehn, K., & Poulsen, A. (1989). Free Cash Flow and Stockholder Gains in Going Private Transactions. *Journal of Finance*, 44, 771-789.
- Lemmon, M., & Zender, J. (2007). Debt Capacity and Tests of Capital Structure.

  Working Paper, University of Utah.
- Lerner, J., Sorensen, M., & Stromberg, P. (2010). Private Equity and Long-Run Investment: The Case of Innovation. *Journal of Finance*, 66(2), 445-477.
- Lhuillery, S. (2009). The Impact of Corporate Governance Practices on R&D Intensities of Firms: An Econometric Study on French Largest Companies. CMI-Working Paper.
- Li, K., Yue, H., & Zhao, L. (2009). Ownership, Institutions and Capital Structure: Evidence from China. *Journal of Comparative Economics*, 37, 471-490.

- Lianos, Th., & Mpenos, Th. (1996). Macroeconomics Analysis and Fiscal Policy.

  Athens: Mpenos Publications.
- Lin, C., Phillips, R.D., & Smith, S.D. (2008). Hedging, Financing and Investment Decisions: Theory and Empirical Tests. *Journal of Banking and Finance*, 32(8), 1566–1582.
- Lipton, M., & Lorsch, J.W. (1992). A Modest Proposal for Improved Corporate Governance. *The Business Lawyer*, 48(1).
- Long, M., & Maltiz, I. (1985). The Investment Financing Nexus: Some Empirical Evidence. *Midland Corporate Finance Journal*, 3, 53-59.
- Lopez-Gracia, J., & Sanchez-Andujar, S. (2007). Financial Structure of the Family Business: Evidence from a Group of Small Spanish Firms. *Family Business Review*, 20, 269-287.
- Loughran, T., & Ritter, J.R. (1995). The New Issues Puzzle. *The Journal of Finance*, 50(1), 23-51.
- Lowe, J., Naughton, T., & Taylor, P. (1994). The Impact of Corporate Strategy on the Capital Structure of Australian Companies. *Managerial and Decision Economics*, 15, 245-257.
- Lu, Y., & Yao, J. (2006). Impact of State Ownership and Control Mechanisms on the Performance of Group Affiliated Companies in China. Asia Pacific Journal Management, 23, 485-503.
- MacKie-Mason, J. (1990). Do Taxes Affect Corporate Financing Decisions?. *Journal of Finance*, 45, 1471-1493.
- Makri, M., Lane, P.J., & Gomez-Mejia, L.R. (2006). CEO Incentives, Innovation and Performance in Technology-Intensive Firms: A Reconciliation of Outcome and

- Behavior Based Incentive Schemes. *Strategic Management Journal*, 27(11), 1057-1080.
- Margaritis, D., & Psillaki, M. (2010). Capital Structure, Equity Ownership and Firm Performance. *Journal of Banking and Finance*, 34, 621-632.
- Marris, R.L. (1963). A Model of the Managerial Enterprise. *The Quarterly Journal of Economics*, 77(2), 185-209.
- Marris, R.L. (1964). The Economic Theory of Managerial Capitalism. Glencoe: Free Press.
- Marsh, P. (1982). The Choice between Equity and Debt: An Empirical Study. *Journal of Finance*, 37, 121-144.
- Martinez, J., Stohr, B., & Quiroga, B. (2007). Family Ownership and Firm Performance: Evidence from Public Companies in Chile. *Family Business Review*, 20, 83–94.
- Masulis, R. (1983). The Impact of Capital Structure Change on Firm Value, Some Estimates. *Journal of Finance*, 38(1), 107-126.
- Matheson, T. (2006). The Effect of the Corporate Income Tax on Leverage in Public Corporations. Electronic copy of this paper is available at: http://ssrn.com/abstract=970666
- Maury, B. (2006). Family Ownership and Firm Performance: Empirical Evidence from Western European Corporations. *Journal of Corporate Finance*, 12, 321-341.
- Mayer, T. (1968). Monetary Policy in the United States. New York: Random House Inc., 122-123.

- Mayer, F. (1997). Corporate Governance, Competition and Performance. In Enterprise and Community: New Directions in Corporate Governance, Deakin, S. and Hughes, A. (Eds.), Blackwell Publishers, Oxford, UK.
- Mayer, C., & Sussman, O. (2004). A New Test of Capital Structure. Working Paper, Oxford: Said Business School.
- McConaughy, D.L., Walker, M.C., Henderson, Jr., & Mishra, C.S. (1998). Founding Family Controlled Firms: Efficiency and Value. *Review of Financial Economics*, 7(1), 1–19.
- McConnell, J., & Servaes, H. (1990). Additional Evidence on Equity Ownership and Corporate Value. *Journal of Financial Economics*, 27, 595-612.
- McConnell, J.J., & Servaes, H. (1995). Equity Ownership and the Two Faces of Debt. *Journal of Financial Economics*, 39, 131-157.
- Metrick, A., & Ishii, J. (2002). Firm Level Corporate Governance. Global Corporate Governance Forum, Research Network.
- Meyer, J.R., & Glauber, R.R. (1964). Investment Decisions, Economic Forecasting and Public Policy. *The Journal of Finance*, 19(4), 718-721.
- Meyer, J.R., & Kuh, E. (1957). The Investment Decision: An Empirical Analysis. *The Economic Journal*, 70(279), 561-563.
- Meyer, J.R., & Strong, J.S. (1990). Sustaining Investment, Discretionary Investment, and Valuation: A Residual Funds Study of the Paper Industry. In Asymmetric Information, Corporation finance and Investment, Hubbard, R.G., Chicago: University of Chicago Press.
- Michaelas, N., Chittenden, F., & Poutziouris, P. (1999). Financial Policy and Capital Structure Choice in U.K. SMEs: Empirical Evidence from Company Panel Data. Small Business Economics, 12(2), 113-130.

- Milios, J., Economakis, G., & Lapatsioras, S. (2000). Introduction to Economic Analysis. Athens: Ellinika Grammata.
- Modigliani, F., & Miller, M. (1958). The Cost of Capital, Corporation Finance and the Theory of Investment. *American Economic Review*, 48, 261-297.
- Mohamad, S., Hassan, T., & Ariff, M. (2007). Research in an Emerging Malaysian Capital Market: A Guide to Future Direction. *Journal of Economics and Management*, 1(2), 173 202.
- Molina, C. (2005). Are Firms Underleveraged? An Examination of the Effect of Leverage on Default Probabilities. *Journal of Finance*, 60(3), 1427–1459.
- Moore, W. (1986). Asset Composition, Bankruptcy Costs and the Firm's Choice of Capital Structure. *Quarterly Review of Economics and Business*, 26, 51-61.
- Morck, R., Shleifer, A., & Vishny, R.W. (1988). Management Ownership and Market Valuation: An Empirical Analysis. *Journal of Financial Economics*, 20(2), 293-315.
- Morck, Randall, Stangeland, D., & Yeung, B. (2000). Inherited Wealth, Corporate

  Control and Economic Growth: The Canadian Disease. In Morck R, (Eds),

  Concentrated Corporate Ownership, National Bureau of Economic Research

  Conference, University of Chicago Press.
- Morck, R., Wolfenzon, D., & Yeung, B. (2005). Corporate Governance, Economic Retrench and Growth. *Journal of Economic Literature*, 63, 655–720.
- Mprissimis, S., Magginas, N., Simigiannis, G., & Tavlas, G. (2002). Issues on the Transmission of Monetary Policy. In Bryant, R., Garganas, N., & Tavlas, G. (Eds.), Greece's Economic Performance and Prospects, 291-330, Athens: Bank of Greece, and Washington, D.C.: The Brookings Institution.

- Munari, F., Oriani, R., & Sobrero, M. (2005). The Effects of Owner Identity and Financial Markets an R&D Investments: A Study of Western European Firms.

  Annual Meeting of the Academy of Management, Honolulu.
- Munter, P., & Kren, L. (1995). The Impact of Uncertainty and Monitoring of Board of Directors on Incentive System Design. *Managerial Auditing Journal*, 10(4), 23-34.
- Mustapha, M., Ismail, H., & Minai, B. (2011). Determinants of Debt Structure:

  Empirical Evidence from Malaysia. International Conference on Business and

  Economic Research Proceeding.
- Mutenheri, E., & Green, C.J. (2003). Financial Reform and Financing Decisions of Listed Firms in Zimbabwe. *Journal of African Business*, 4(2), 155–170.
- Myers, S.C. (1977). Determinants of Corporate Borrowing. *Journal of Financial Economics*, 5(2), 147-175.
- Myers, S.C. (1984). The Capital Structure Puzzle. *Journal of Finance*, 39(3), 575-592.
- Myers, S.C. (1989). Still Searching for the Optimal Capital Structure. Federal Reserve Bank of Boston's Conference, are Distinctions between Debt and Equity Disappearing?.
- Myers, S.C. (1997). Interpretive Research in Information Systems. In Mingers, J., and Stowell, F. (Eds.), Information Systems: An Emerging Discipline?. London: McGraw-Hill, 239-266.
- Myers, S.C., & Majluf, N. (1984). Corporate Financing and Investment Decisions when Firms Have Information that Investors Do Not Have. *Journal of Financial Economics*, 13(2), 187-221.

- Maharaja, P., Zulkafli, A.H., & Masron, T.A. (2011). Family Ownership, Firm's Financial Characteristics and Capital Structure: Evidence from Public Listed Companies in Malaysia. *Economia Seria Management*, 14(1), 141-155.
- Najid, Afzan, N., & Abdul Rahman, R. (2011). Government Ownership and Performance of Malaysian, Government-Linked Companies. *International Research Journal of Finance and Economics*, 61, 42-56.
- Novaes, W., & Zingales, L. (1995). Capital Structure Choice when Managers are in Control: Entrenchment vs. Efficiency. *The Journal of Business*, University of Chicago Press, 76(1), 49-82.
- Odit, M.P., & Chittoo, H.B. (2008). Does Financial Leverage Influence Investment Decisions? The Case of Mauritian Firms. *Journal of Business Case Studies*, 4(9) 49-60.
- Omran, M.M., & Pointon, J. (2009). Capital Structure and Firm Characteristics: An Empirical Analysis from Egypt. *Review of Accounting and Finance*, 8(4), 454-474.
- Oxelheim, L., & Randoy, T. (2003). The Impact of Foreign Membership on Firm Valuation. *Journal of Banking and Finance*, 27(12), 2369-2392.
- Ozkan, A. (2001). Determinants of Capital Structure and Adjustment to Long Run Target: Evidence from UK Company Panel Data. *Journal of Business Finance and Accounting*, 28, 175–198.
- Peck, R., & Baker, J.C. (2012). Statistics, the Exploration and Analysis of Data.

  Boston: USA.
- Petraki-Kotti, A. (1996). Modern Macroeconomics, Theory and Policy. Athens: K. & P., Spilias.

- Peyer, U.C., & Shivdasani, A. (2001). Leverage and Internal Capital Markets: Evidence from Leveraged Recapitalizations. *Journal of Financial Economics*, 59, 477-515.
- Pfaffermayr, M., Stockl, M., & Winner, H. (2013). Capital Structure, Corporate Taxation and Firm Age. *Fiscal Studies*, 34(1), 109-135.
- Pfeffer, J. (1973). Size, Composition and Function of Corporate Boards of Directors:

  The Organization-Environment Linkage. *Administrative Science Quarterly*,

  18(3), 349-364.
- Pfeffer, J., & Salancick, G.R. (1978). The External Control of Organizations: A Resource Dependence Perspective. New York: Haper and Row Publishers.
- Pike, R., & Neale, B. (2009). Corporate Finance and Investment: Decisions and Strategies. England, Harlow: Prentice Hall/Financial Times.
- Pound, J. (1988). Proxy Contest and the Efficiency of Shareholder Oversight. *Journal of Financial Economics*, 20, 237-265.
- Rachagan, S., & Satkunasingam, E. (2009). Improving Corporate Governance of SMEs in Emerging Economies: A Malaysian Experience. *Journal of Enterprise Information Management*, 22(4), 468-484.
- Rajan, R.G., & Zingales, L. (1995). What do We Know about Capital Structure? Some Evidence from International Data. *The Journal of Finance*, 50(5), 1421-1460.
- Ramirez, C.D., & Tan, L.H. (2004). Singapore Inc. versus the Private Sector: Are Government-Linked Companies Different?. *International Monetary Fund Staff Papers*, 51(3), 510-528.
- Randoy, T., Dibrell, C., & Craig, J. (2009). Founding Family Leadership and Industry Profitability. *Small Business Economics*, 32, 397–407.

- Renjun, Z., & Chen, Z. (2010). Study on the Relationship between the Characters of Board of Directors Structure and Corporate Growth: on Chinese Listed Companies in Competitive Industry. International Conference on E-Business and E-Government, IEEE Computer Society, Washington, DC, USA, 4660 4663.
- Ridha, M., & Bajka, D. (2010). The Impact of R&D Investments on the Capital Structure of Swedish Public Life Science Companies. Bachelor Thesis in Finance.
- Romano, C.A., Tanewski, G.A., & Smyrnios, K.X. (2000). Capital Structure Decision Making: A Model for Family Business. *Journal of Business Venturing*, 16, 285-310.
- Romer, D. (1996). Advanced Macroeconomics. New York: McGraw-Hill.
- Ross, S. (1977). The Determination of Financial Structure: The Incentive Signaling Approach. *The Bell Journal of Economics*, 8(1), 23-40.
- Ross, S. (1985). The Debt and Taxes and Uncertainty. *The Journal of Finance*, 40(3), 637–657.
- Ruan, W., Tian, G.G., & Ma., S. (2009). Managerial Ownership, Capital Structure and Firm Value. *Corporate Ownership and Control*, 7(2), 71-82.
- Saad, N.M. (2010). Corporate Governance Compliance and the Effects to Capital Structure in Malaysia. *International Journal of Economics and Finance*, 2(1), 105-114.
- Sahudin, Z., Mahmood, W.M.W., Ismail, F., Pardi, F., Aziz, A., & Sahudin, M.A. (2011). Debt Structure for Malaysian Construction Companies: Evidence from Panel Data Analysis. *International Journal of Economics and Management Sciences*, 1(3), 1-7.

- Samuel, C. (1996). Internal Finance and Investment: Another look. Mimeo, World Bank.
- Sarantidis, S. (1995). Modern Macroeconomic Analysis. Athens: Mpenos Publications.
- Savignac, F. (2008). Impact of Financial Constraints on Innovation: What Can Be Learned from a Direct Measure?. *Economics of Innovation and New Technology*, 17(6), 553-69.
- Scott, J.H. (1977). Bankruptcy, Secured Debt and Optimal Capital Structure. *Journal of Finance*, 32, 1-19.
- Serrasqueiro, Z.M.S., & Ragao, M.C.R. (2009). Capital Structure of Listed Portugese Companies. *Review of Accounting and Finance*, 8(1), 54-75.
- Shleifer, A. (1998). State versus Private Ownership. *Journal of Economic Perspectives*, 12(4), 133-150.
- Shleifer, A., & Vishny, R. (1989). Management Entrenchment: The Case of Manager-Specific Investments. *Journal of Financial Economics*, 25, 123-139.
- Shleifer, A., & Vishny, R. (1994). Politicians and Firms. *The Quarterly Journal of Economics*, 109(4), 995-1025.
- Shleifer, A., & Vishny R. (1997). A Survey of Corporate Governance. *Journal of Finance*, 52, 737–775.
- Short, H., Zhang, H., & Keasey, K. (2002). The Link between Dividend Policy and Institutional Ownership. *Journal of Corporate Finance*, 8(2), 105-122.
- Shyam-Sunder, L., & Myers, S.C. (1999). Testing Static Tradeoff against Pecking Order Models of Capital Structure. *Journal of Financial Economics*, 51, 219–244.

- Sinha, S. (1992). Inter-Industry Variation in Capital Structure in India. *Indian Journal of Finance and Research*, 2, 13-26.
- Skinner, D.J. (1993). The Investment Opportunity Set and Accounting Procedure Choice: Preliminary Evidence. *Journal of Accounting and Economics*, 16 (4), 407-445.
- Smith, W.S. (2011). Beg, Borrow and Deal? Entrepreneurship and Financing in New Firm Innovation. Discussion Paper, Temple University, Philadelphia.
- Smith, C.W., & Watts, R.L. (1992). The Investment Opportunity Set and Corporate Financing, Dividend and Compensation Policies. *Journal of Financial Economics*, 32, 263-292.
- Stein, J.C. (1989). Efficient Capital Markets, Inefficient Firms: A Model of Myopic Corporate Behavior. *The Quarterly Journal of Economics*, 104(4), 655–669.
- Stiglitz, J.E., & Weiss, A. (1981). Credit Rationing in Markets with Imperfect Information. *The American Economic Review*, 71(3), 393-410.
- Su, L.D. (2010). Ownership Structure, Corporate Diversification and Capital Structure: Evidence from China's Publicly Listed Firms. *Management Decision*, 48(2), 314-339.
- Sulong, Z., & Mat Nor, F. (2010). Corporate Governance Mechanisms and Firm Valuation in Malaysian Listed Firms: A Panel Data Analysis. *Journal of Modern Accounting and Auditing*, 1(56), 1548-6583.
- Summers, L.H. (1981). Taxation and Corporate Investment: A Q Theory Approach.

  Brookings Papers on Economic Activity, 1, 67-127.
- Sun, Q., & Tong, W. (2003). China Share Issue Privatization: The Extent of its Success. *Journal of Financial Economics*, 70, 183–222.

- Talberg, M., Winge, C., Frydenberg, S., & Westgaard, S. (2008). Capital Structure across Industries. *International Journal of the Economics of Business*, 15(2), 181-200.
- Teoh, S.H., Welch, I., & Wong, T.J. (1998). Earnings Management and the Underperformance of Seasoned Equity Offerings. *Journal of Financial Economics*, 50, 63–99.
- Thies, C.F., & Klock, M.S. (1992). Determinants of Capital Structure. *Review of Financial Economics*, 1, 40-52.
- Thomsen, S., & Pedersen, T. (2000). Ownership Structure and Economic Performance in the Largest European Companies. *Strategic Management Journal*, 21, 689-705.
- Titman, S., & Wessels, R. (1988). The Determinants of Capital Structure Choice. *The Journal of Finance*, 43(1), 1-19.
- Tobin, J. (1969). A General Equilibrium Approach to Monetary Theory. *Journal of Money, Credit and Banking*, 1(1), 15-29.
- Toit, C., & Moolman, E. (2004). A Neoclassical Investment Function of the South African Economy. *Economic Modeling*, 21, 637-660.
- Tosi, H.L., Katz, J.P., & Gomez-Mejia, L.R. (1997). Disaggregating the Agency Contract: The Effects of Monitoring, Incentive Alignment and Term in Office on Agent Decision Making. *Academy of Management Journal*, 40(3), 584-602.
- Tu, Y.K., Kellett, M., Clerehugh, V., Gilthorpe, M.S. (2005). Problems of Correlations between Explanatory Variables in Multiple Regression Analyses in the Dental Literature. *Brit Dent Journal*, 1999(7), 457–461.

- Uwuigbe, U. (2014). Corporate Governance and Capital Structure: Evidence from Listed Firms in Nigeria Stock Exchange. *Journal of Accounting and Management*, 4(1), 5-14.
- Van Der Wijst, N., & Thurik, R. (1993). Determinants of Small Firm Debt Ratios: An Analysis of Retail Panel Data. *Small Business Economics*, 5, 55-65.
- Villalonga, B., & Amit, R. (2006). How do Family Ownership, Management and Control Affect Firm Value?. *Journal of Financial Economics*, 80, 385-417.
- Wahla, k., Shah, S.Z., & Hussain, Z. (2012). Impact of Ownership Structure on Firm Performance Evidence from Non-Financial Listed Companies at Karachi Stock Exchange. *International Research Journal of Finance and Economics*, 84, 6-13.
- Wald, J.K. (1999). How Firm Characteristics Affect Capital Structure: An International Comparison. *Journal of Financial Research*, 22, 161–87.
- Wei, Z., & Varela, O. (2003). State Equity Ownership and Firm Performance: Evidence from China's Newly Privatized Firms. Global Finance Journal, 14, 65-82.
- Weisbach, M.S. (1988). Outside Directors and CEO Turnover. *Journal of Financial Economics*, 20, 431-460.
- Wen, Y., Rwegasira, K., & Bilderbeek, J. (2002). Corporate Governance and Capital Structure Decisions of Chinese Listed Firms. *Corporate Governance*, 10(2), 75-83.
- Whited, T. (1992). Debt, Liquidity Constraints and Corporate Investment: Evidence from Panel Data. *The Journal of Finance*, 47(4), 1425-1460.
- Williamson, O. (1988). Corporate Finance and Corporate Governance. *Journal of Finance*, 43 (3), 567-591.

- Wiwattanakantang, Y. (1999). An Empirical Study on the Determinants of the Capital Structure of Thai Firms. *Pacific-Basin Finance Journal*, 7(3-4), 371-403.
- Wiwattanakantang, Y. (2001). Controlling Shareholders and Corporate Value: Evidence from Thailand. *Pacific-Basin Finance Journal*, 9, 323-362.
- Wooldridge, J.M. (2006). Introductory Econometrics: A Modern Approach. Mason, OH: Thomson/South-Western.
- Wright, P., Ferris, S.P., Sarin, A., & Awasthi, V. (1996). Impact of Corporate Insider, Blockholder and Institutional Equity Ownership on Firm Risk Taking. *The Academy of Management Journal*, 39(2), 441–463.
- Wright, S. (2004). Measures of Stock Market Value and Returns for the U.S. Non-Financial Corporate Sector, 1900-2002. *Review of Income and Wealth*, 50 (4), 561-584.
- Wu, Z., Chua, J.H., & Chrisman, J.J. (2007). Effects of Family Ownership and Management on Small Business Equity Financing. *Journal of Business Venturing*, 22, 875-895.
- Yammeesri, J., & Herath, S.K. (2010). Board Characteristics and Corporate Value: Evidence from Thailand. *Corporate Governance*, 10(3), 2010.
- Yang, Y., & Yu, W.Y. (2011). Effect of Board Governance on Corporate Growth-Based on Empirical Data of Chinese A-Share Top 500 Listed Companies. *Journal of Xidian University (Social Science Edition)*, 3, 9-15.
- Yatim, P., Kent, P., & Clarkson, P. (2006). Governance Structures, Ethnicity and Audit Fees of Malaysian Listed Firms. *Managerial Auditing Journal*, 21(7), 757-782.

- Yeh, Y., & Woidtke, H.T. (2005). Commitment or Entrenchment? Controlling Shareholders and Board Composition. *Journal of Banking & Finance*, 29, 1857-1885.
- Yu, C., Chen, S., & Hsieh, T. (2008). Keiretsu Style Main Bank Relationships, R&D Investment, Leverage and Firm Value: Quantile Regression Approach.

  Quantitative Finance and Risk Management Conference, National Chou-Tong University, Shi-chu, Taiwan.
- Yuan, Y., & Motohashi, K. (2008). Impact of the Debt Ratio on Firm Investment: A Case Study of Listed Companies in China. RIETI Discussion Paper, Series 08-E-011.
- Yuan, R., Xiao, J.Z., & Zou, H. (2008). Mutual Funds' Ownership and Firm Performance: Evidence from China. *Journal of Banking and Finance*, 32, 1552-1565.
- Zou, H., & Xiao, J.Z. (2006). The Financing Behavior of Listed Chinese Firms. *The British Accounting Review*, 38(3), 239-258.