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研習營-經濟學門-Human Capital, Growth and Development	
講題領域	總體經濟與貨幣理論
講員	王平
講題	Human Capital, Growth and Development
講題簡介	This course is devoted to selected topics in the area of human capital, growth and development. It begins by reviewing the basics, followed by a study of teaching, learning and interactions, then by an array of important topics on labor-market decisions and economic development, and finally by an examination of the causes and consequences of income inequality. The main purpose of this course is to help you strengthen the fundamentals with further exploration of contemporary issues in human capital, growth and development that can jump-start your potentially fruitful research in the areas.
建議閱讀文獻	Lucas, R. E., Jr. (1988), "On the Mechanics of Economic Development," JME, 22, 3-42. Bond, E., P. Wang and C. Yip (1996), "A General Two-Sector Model of Endogenous Growth with Physical and Human Capital: Balanced Growth and Transitional Dynamics," JET, 68, 149-173. Tamura, Robert (2001), "Teachers, growth, and convergence," JPE, 109, 1021-1059. 369-393. Lucas, R. E., Jr. (1993), "Making a Miracle," Econometrica, 61, 251-272. Laing, D., T. Palivos and P. Wang (1995), "Learning, Matching and Economic Growth," RES, 62, 115-129. Redding, S. (1996), "Low-Skill, Low-Quality Trap: Strategic Complementarities between Human Capital and R&D, EJ, 106, 458-471. Galor, Oded and Weil, David (2000), "Population, technology and growth: from Malthusian stagnation to the demographic transition and beyond," AER, 90, 806-828. Doepke, M. and F. Zilibotti (2008), "Occupational Choice and the Spirit of Capitalism," QJE, 123, 747-793. Lucas, R. (2004), "Life Earnings and Rural-Urban Migration," JPE, 112, S29-59. Acemoglu, D. and S. Johnson (2007), "Disease and Development: The Effect of Life Expectancy on Economic Growth," JPE, 115, 925-985. Acemoglu, D. and M. Dell (2009), "Productivity Differences between and within Countries," NBER working paper #15155. Glomm, G. and B. Rivikumar (1992), "Public vs. Private Investment

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著作	Over 80 referred papers published in highly ranked journals, including, selectively, American Economic Review (1993, 1995), Review of Economic Studies (1995), Journal of Economic Theory (1996, 2002, 2003, 2006), Journal of Monetary Economics (1993, 1994, 1995, 2007), Review of Economics and Statistics (1993, 1994), International Economic Review (1997, 2003, 2004, 2011), American Economic Journal: Policy (2017), Economic Theory (2002, 2008, 2009, 2012, 2014, 2019), Review of Economic Dynamics (2005), Journal of Labor Economics (2001), Journal of Development Economics (1995, 1999, 2004), Journal of Money, Credit and Banking (1992, 2007, 2013), Journal of Economic Dynamics and Control (2002, 2009, 2010), European Economic Review (2013a, 2013b). Journal of Urban Economics (2006a, 2006b, 2008), and Regional Science and Urban Economics (1990a, 1990b, 1993a, 1993b, 1995, 1996, 2004, 2006, 2012).
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研習營-經濟-資產價格波動、金融穩定、與總體審慎政策	
講題領域	總體經濟與貨幣理論
講員	陳南光
講題	資產價格波動、金融穩定、與總體審慎政策
講題簡介	自 1980 年代初以來，世界各國的通貨膨脹率普遍下降，不過在同時期資產價格(主要是房價與股價)變動的程度卻大幅加劇，尤其是 2007–2009 年全球金融海嘯對於各國金融體系的穩定造成嚴重的威脅，不僅引發系統風險而且導致總體經濟活動的巨幅波動。促使學界與各國金融主管當局思考資產價格與總體經濟變數之間的回饋機制，以及中央銀行在維護金融穩定上的角色。這個課程包含 4 個主題。我們首先討論擔保品的價值與金融摩擦下借貸限制之間的交互作用，與擴大和延續衝擊的機制，以及其對於景氣波動的影響。接著討論槓桿循環發生的機制以及對系統風險的影響。我們也會研究房價與股價等資產價格變動對民間總消費的影響。接下來討論信用擴張的順向循環與金融危機的關係與金融循環的現象。最後，我們關心中央銀行應如何利用總體審慎政策與工具因應資產價格的波動與金融穩定的問題。
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4. The Financial Cycles, Financial Stability, and Macro-Prudential

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講題領域	總體經濟與貨幣理論
講員	盧佳慧
講題	公共政策與經濟成長
講題簡介	政府支出及其相關產品為影響私人資源配置和社會福利的一個重要因素。在討論政府支出與總體經濟表現之間的聯繫時，大多數文獻將公共產品分為三種不同的類型。第一類包括是用來做基礎建設，公共支出可直接對廠商的生產有幫助。第二類包括對教育部門的建設，公共支出可以轉化為教育質量，用以提高民眾的人力資本。研究發現前兩類公共建設的支出可以促進經濟成長並影響民眾福利。第三類包括純粹影響民眾主觀感受，例如美化環境等。這種支出增強了家庭福利，並與私人消費和休閒有相互作用。 由於政府支出可能會影響人力資本和實質資本的累積，即使是單純對民眾效用的影響，也會透過民眾勞動休閒選擇而改變總體生產行為，因而經濟成長和家庭長期福利水準可能會受到公共支出的影響。因此，找到能使家庭終身福利達到極大的最適政府支出是總體經濟學家的重要議題之一。 除了前述三種公共支出外，在經濟發展過程中，政府政策也會對相關總體經濟行為產生影響。本課程也會簡介政府政策在經濟發展的相關應用。 課程內容 1. 外生與內生經濟成長模型介紹 2. 政府支出與經濟成長 3. 最適政府政策 4. 政府政策在經濟成長與經濟發展的相關應用
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Turnovsky, S.J., 2000, Fiscal policy, elastic labor supply, and endogenous growth, *Journal of monetary Economics* 45, 185-210.

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著作	**Lu, Chia-Hui**, 2019, Child labor and compulsory education: the effects of government education policy on economic growth and welfare, ***Economic Theory***, forthcoming. (, EconLit) https://doi.org/10.1007/s00199-019-01176-w. **Lu, Chia-Hui**, 2018, A note on business cycle properties in frictional labor markets, ***Macroeconomic Dynamics*** 22, 1370-1389. (, EconLit) **Lu, Chia-Hui**, 2015, Fiscal policies, frictional labor market, and endogenous growth, ***Journal of Macroeconomics*** 46, 315-327. (, EconLit) **Lu, Chia-Hui** and Been-Lon Chen, 2015, Optimal capital taxation in a neoclassical growth model, ***Journal of Public Economic Theory*** 17, 257-269. (, EconLit) Azariadis, Costas, Been-Lon Chen, **Chia-Hui Lu**, and Yin-Chi Wang, 2013, A two-sector model of endogenous growth with leisure externalities, ***Journal of Economic Theory*** 148, 843-857. (, EconLit) Chen, Been-Lon and **Chia-Hui Lu**, 2013, Optimal factor tax incidence in two-sector human capital-based models, ***Journal of Public Economics*** 97, 75-94. (, EconLit) Chen, Been-Lon, Mei Hsu, and **Chia-Hui Lu**, 2008, Inflation and Growth: Impatience and a Qualitative Equivalence, ***Journal of Money, Credit and Banking*** 40, 1309-1323. (, EconLit)
榮譽獎項	科技部優秀年輕學者研究計畫 國科會吳大猷先生紀念獎

研習營-經濟學門-總體經濟與經濟成長	
講題領域	總體經濟與經濟成長
講員	盧姝璇
講題	景氣循環拆解方程式及其應用
講題簡介	景氣循環拆解方程式是一個總體經濟學領域所使用的研究方法，用以了解造成模型結果與經濟事實的差異管道為何。雖然此一方法一開始多使用在了解造成景氣循環的成因，該方法也可以用來了解造成某些經濟變數長期成長或停滯的原因。在了解這些原因後，研究者可以根據景氣循環拆解方程式的結果，建構一個可以有效解釋經濟現象的模型。本課程將介紹此一方法並說明如何將這方法運用在討論景氣循環以外的經濟議題。 課程內容： 景氣循環拆解方程式之簡介 景氣循環拆解方程式在經濟成長議題的應用 景氣循環拆解方程式在薪資停滯議題的應用
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著作	Shu-Shiuan Lu (2013, Jun). The role of capital market efficiency in long-term growth: A quantitative exploration. *Journal of Macroeconomics*, 36, pp. 161-174. Shu-Shiuan Lu (2012, Jul). East Asian Growth Experience Revisited from the Perspective of a Neoclassical Model. *Review of Economic Dynamics*, 15, P. 359- P. 376. Shu-Shiuan Lu (2012, May). How significant is the role of reallocation to long- term growth?. *Applied Economics Letters*, 19 (7), p.695 - p. 698. 盧姝璇（2018 年 12 月）。以數量分析方法探討臺灣薪資停滯成因 。**Academia Economic Papers**，46 (40), 519-553。 林常青, 張俊仁, 盧姝璇(2017 年 03 月)。薪資停滯?事實陳述與亞洲跨國比較。人文及社會科學集刊，29 (1), 87-125。

<table>
<tr><th colspan="2">研習營-經濟學門- Unconventional Monetary Policy</th></tr>
<tr><td>講題領域</td><td>總體經濟與貨幣理論</td></tr>
<tr><td>講員</td><td>荒井夏來</td></tr>
<tr><td>講題</td><td>Unconventional Monetary Policy</td></tr>
<tr><td>講題簡介</td><td>Recently, many central banks in advanced economies have engaged in unconventional monetary policies, where conventional policy tools of the nominal interest rates have been stuck at the zero lower bound (ZLB). This lecture covers (1) Overview of unconventional monetary policy, (2) Identification and methodology, and (3) Empirical analysis (U.S. and other countries) and discuss its policy implications.</td></tr>
<tr><td>建議閱讀文獻</td><td>1. <u>Overview</u>
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(2) International Spillover
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著作	Natsuki Arai (2017, Jun). The Effects of Monetary Policy Announcements at the Zero Lower Bound. *INTERNATIONAL JOURNAL OF CENTRAL BANKING*, 13(2) pp. 159-196. Natsuki Arai (2016, Jul). Evaluating the Efficiency of the FOMC's New Economic Projections. *JOURNAL OF MONEY CREDIT AND BANKING*, 48(5) 1019–1049. Natsuki Arai (2014, Jan). Using Forecast Evaluation to Improve the Accuracy of the Greenbook Forecast. *INTERNATIONAL JOURNAL OF FORECASTING*, 30(1), 12-19.
榮譽獎項	優秀年輕學者研究計畫 (2017-18)

研習營-經濟學門-R&D 貨幣成長模型理論與應用	
講題領域	總體經濟與貨幣理論
講員	廖志興
講題	R&D 貨幣成長模型理論與應用
講題簡介	**【講題重要性】** 研究與發展(research and development, 簡稱 R&D)實乃國家經濟成長的動能之一。廠商為了進行產品的 R&D，則需投入大量的資金與人力。鑑此，若一個國家的通貨膨脹率提高，廠商可能面臨研發成本的上升，進而降低 R&D 的意願，導致國家經濟成長動能的降低。因此，在總體經濟領域當中，有許多學者應用 R&D 成長模型，探究通貨膨脹與 R&D 的連動性對總體經濟帶來何種影響。 **【內容介紹】** 在本課程中，我們首先簡單介紹 R&D 的兩種基本模型，分別為產品多樣化模型(expanding variety model)與品質提升模型(quality ladder model)。再者，我們使用交易付現(cash-in-advance)的方式，將貨幣的角色引入這兩種模型之中。最後，我們將討論開放經濟的情況。
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<table>
<tr><th colspan="2">廖志興</th></tr>
<tr><td>學歷</td><td>國立政治大學經濟學系博士</td></tr>
<tr><td>現職</td><td>中國文化大學經濟學系副教授</td></tr>
<tr><td>經歷</td><td>中國文化大學經濟學系助理教授
中央研究院經濟研究所博士後研究</td></tr>
<tr><td>著作</td><td>Chu, A. C., Lai, C. C., and Liao, C. H., 2019. A tale of two growth engines: Interactive effects of monetary policy and intellectual property rights. Journal of Money, Credit and Banking, forthcoming. (, EconLit)

Chu, A. C., Cozzi, G., Furukawa, Y., and Liao, C. H., 2019. Inflation and innovation in a Schumpeterian economy with North-South technology transfer. Journal of Money, Credit and Banking, forthcoming. (, EconLit)

Chu, A. C., Cozzi, G., Furukawa, Y., and Liao, C. H., 2017. Inflation and economic growth in a Schumpeterian model with endogenous entry of heterogeneous firms. European Economic Review, 98, 392-409. (, EconLit)

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曹添旺，曹真睿與廖志興，2016，「進口物價波動、資本累積與貿易條件動態」，經濟論文，44，413-455。(T)

Chu, H., Lai, C. C., and Liao, C. H., 2016. A note on environment-dependent time preferences. Macroeconomic Dynamics, 20, 1652-1667. (, EconLit)

Chu, A. C., Cozzi, G., Lai, C. C., and Liao, C. H., 2015. Inflation, R&D and growth in an open economy. Journal of International Economics, 96, 360-374. (, EconLit)

Chu, C. Y. Cyrus, Lai, C. C., and Liao, C. H., 2014. How could the non-sustainable Easter Island have been sustained? International Review of Economics and Finance, 34, 161-174. (, EconLit)

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<table>
<tr><th colspan="2">研習營-經濟學門- Continuous Time Macroeconomics with Financial Frictions</th></tr>
<tr><td>講題領域</td><td>總體經濟與貨幣理論</td></tr>
<tr><td>講員</td><td>蘇軒立</td></tr>
<tr><td>講題</td><td>Continuous Time Macroeconomics with Financial Frictions</td></tr>
<tr><td>講題簡介</td><td>The Great Recession has led to a transformation in macroeconomics. There are a few new advances, such as financial frictions, macro-prudential policy, spill-over effects, amplification from asset prices changes, new measures of risks, and new monetary policy based on heterogeneous agent New Keynesian modeling. A lot of these works are built on the continuous time framework, which offers explicit solutions on volatility and is able to fully characterize highly non-linear dynamics even far away from steady states. Markus Brunnermeier (Princeton) and Yuliy Sannikov (Stanford) are two leading scholars who keep pushing this frontier hardly.

This workshop will offer all relevant technical details to help researchers understand, solve, and apply the modeling approach in the Macroeconomics Handbook Chapter 18, written by Markus Brunnermeier and Yuliy Sannikov, and their seminal work published in AER (2014). This continuous time modeling will allow researchers to analyze endogenous (1) level and risk dynamics, (2) tail risk and crisis probability, (3) the Volatility Paradox. (4) liquidity concepts, (5) endogenous leverage, (6) time-varying risk premia. Financial frictions also give rise to an endogenous (7) value of money.

In Spring 2019, Markus Brunnermeier, Yuliy Sannikov, and Lars Hansen collaborated on a remote course to teach the above new advances and techniques. The participants included graduate students and researchers from Chicago, Stanford, NYU, Northwestern, Princeton, U Penn, and Chicago Fed. I was lucky to be able to participate in this remote course. The workshop will follow the course materials taught by them (plus my learning experience).

Topics:
1. Optimal portfolio choices and stochastic discount factor in continuous time.
2. A simple real economy model with financial frictions.
3. A model with price effects and instabilities.
4. Solving partial differential equations
5. A simple monetary model</td></tr>
</table>

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研習營-經濟學門-搜尋模型在貨幣經濟的應用-	
講題領域	總體經濟與貨幣理論
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講題	搜尋模型在貨幣經濟的應用
講題簡介	【講題重要性】 本課程將介紹貨幣搜尋模型及其應用。自從 Kiyotaki and Wright (1989) 提出貨幣搜尋模型 (search monetary models) 來解釋貨幣如何 出現，如何有價值等問題以來，該模型已被廣泛用來研究許多貨幣經 濟的重要問題。傳統總體貨幣模型通常假設貨幣帶給人們效用而將貨 幣直接放在效用函數中 (money-in-the-utility function)，或者假設交易 一定須使用貨幣而採取「交易付現限制」(cash-in-advance constraint)等等。雖然這些模型在研究許多總體經濟的問題上已有很好的成果，但 是如果我們關心的問題是貨幣為什麼有價值、在什麼情況下人們會使用貨幣或信用進行交易、在多種資產存在的的情況下，人們會使用哪一種資產作為支付工具、而人們的決策和資產本身的特性如何影響資 產之間的流動性差異、以及何種貨幣會成為國際通貨等問題，我們就不能先驗上對貨幣的使用作假設。此外，對貨幣或資產的使用做假設，在進行政策分析時，難免面臨 Lucas critique 所指出的問題。貨幣搜尋模型的特色在於能夠明確描述交易型態與交易障礙，因此適於研究以上議題。 【內容介紹】 (1) 貨幣搜尋模型的簡介； (2) 貨幣作為交易媒介的研究及政府如何影響貨幣的流通與價值； (3) 貨幣與物價膨脹； (4) 資產與流動性。
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研習營-經濟學門-實質景氣循環理論：總體動態分析與均衡不確定性	
講題領域	總體經濟與貨幣理論
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講題簡介	【講題重要性】 由 2004 年諾貝爾經濟學獎得主 Finn Kydland 和 Edward Prescott 所倡導的實質景氣循環(Real Business Cycle; RBC) 理論，是當代總體經濟研究的重要典範。該理論主要是建構一個小規模(small-scale)的總體模型，在模型中完全理性的個人乃是在其所認知的環境限制下做出最佳決策，而其概念是將 Arrow-Debreu 一般均衡理論應用於景氣循環變動的動態分析。自 1980 中期開始，此架構亦成了評價景氣循環模型的重要參考依據，而這種跨期的(intertemporal)一般均衡理論也成為建構景氣循環模型的重要方法論。但是早期許多依此建構的模型加入了不必要的限制；特別是限定均衡必須為柏拉圖最適(Pareto optimal)的環境，而使得政府的總體政策沒有被討論的空間。 【內容介紹】 在此講題中，我先介紹基礎的分析工具，再介紹如何建構及求解一個基本的 RBC 模型。之後我會討論我自己的研究計劃：將具有規模報酬遞增性質的生產函數引入模型中，在此情況下，因為市場的不完美--生產具外部性並且產業為獨占性競爭--我們得到的競爭均衡只是次佳(sub-optimal)。我們將介紹兩大類模型：一是具複均衡的 RBC 模型；二是多國的或是引入政府穩定政策的 RBC 模型。
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講題	人口變化與經濟成長
講題簡介	【講題重要性】 人口成長是否會影響經濟成長? 針對這個問題，經濟學家已爭論數十年，但仍無定論。最近十幾年開始，此研究的焦點轉向關注人口「年齡結構」(age structure)的變化，不再僅止於人口「成長率」。 人口變化(demographic transition)約略可分為兩階段。第一階段，死亡率下降存活率提高，但生育率尚未降低，造成人口快速增加，形成所謂的「人口紅利」(demographic dividends)，豐沛的勞動人口對經濟成長有正面的貢獻。接著，生育率開始下降，且死亡率已處於低點，造成人口趨於老化，進而引發勞動力不足，各種人口老化的社會問題也伴隨而來。 我們將著重於人口變化對經濟成長的影響。首先，將簡單介紹人口變化的相關概念，接著依序討論人口紅利對經濟成長的影響和人口老化造成的各種經濟問題。最後，討論一些可能的解決政策及其影響，例如，延後退休年齡、發放生育津貼、補貼教育等等。 【內容介紹】 1. Introduction 2. The early stage of demographic transition: demographic dividends (1) Empirical evidence (2) Theoretical studies 3. The later stage of demographic transition: population aging (1) Global trend: developed vs. developing countries (2) The problem of population aging 4. Possible solutions for population aging
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著作	Pei-Ju Liao and ChongKee Yip, 2018, Economics on Rural-urban Migration, Oxford Research Encyclopedia of Economics and Finance, forthcoming. Minchung Hsu, Pei-Ju Liao, and Min Zhao, 2018, "Demographic Change and Long-term Growth in China: Past Developments and the Future Challenge of Aging", Review of Development Economics, Volume 22, No.3, 928-952.Working paper Minchung Hsu and Pei-Ju Liao, 2015, "Financing National Health Insurance: Challenge of Fast Population Aging", Taiwan Economic Review Special Issue: Macroeconomic-Theory and Empirics, Volume 43, No. 2, 145-182. Working paper Pei-Ju Liao, 2013, "The One-child Policy: A Macroeconomic Analysis", Journal of Development Economics, Volume 101, 49-62. Working paper Pei-Ju Liao, 2011, "Does Demographic Change Matter for Growth?", European Economic Review, Volume 55, No. 5, 659-677. Working paper
榮譽獎項	孫震優秀青年學者獎，台大經濟研究學術基金會 大專校院獎勵特殊優秀人才，科技部 台灣經濟研究傑出論文獎，台灣經濟學會 教育部專案培育留學獎學金，教育部 國科會碩士論文獎，國家科學委員會

研習營-經濟學門- Heterogeneous agent model and their implications in Macroeconomics	
講題領域	總體經濟與貨幣理論
講員	蔡宜展
講題	Heterogeneous agent model and their implications in Macroeconomics
講題簡介	【講題重要性】 It has become increasingly common for researchers to study dynamic stochastic general equilibrium (DSGE) models with heterogeneous agents. A canonical example is Krusell and Smith's (1998) model of an economy where households face idiosyncratic risk with borrowing constraints. The aggregate state vector of this economy involves a distribution of households over wealth; furthermore individual decision rules are nonlinear given the presence of borrowing constraints. Other examples in the same avenue of research include environments where firms face fixed costs of price adjustment, or fixed costs of changing capital, employment or inventories. Such models, with heterogeneity and discrete choices, offer the attractive possibility of combining a fully-fledged economic structure with rich, testable implications for the cross-section of consumer or firm behavior, and have been extensively used to address issues such as the distribution of wealth, the effect of short-term non-neutralities on the real economy, and the effect of non-linearities in establishment-level investment on aggregate time-series. The goal of this lecture is to introduce researchers with the class of DSGE models described above. First we will study recursive methods used to characterize economies with heterogeneity, second we will examine the mapping from model to data and third we will learn how to numerically solve such models. 【內容介紹】 1. Review of Recursive Methods in Dynamic Economics 2. Stationary Equilibrium in Heterogeneous agent economies -Hugget (1991) -Aiyagari (1993) 3. Dynamic Stochastic General Equilibrium Heterogeneous agent economies -The one-sector growth model with borrowing limits and idiosyncratic shocks: Krusell and Smith (1998). -An endowment economy with aggregate uncertainty: Krusell and Smith (1997)

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榮譽獎項	東京海上各務記念財團研究獎(2011) 蔣經國學術交流基金會博士論文獎學金(2009) 俄亥俄州立大學博士論文獎學金(2008)

研習營-經濟學門-開放經濟的總體經濟動態與政府政策	
講題領域	國際金融理論與實證
講員	陳盈臻
講題	開放經濟的總體經濟動態與政府政策
講題簡介	由於「國際金融理論」又稱「開放經濟的總體經濟學」，故本課程的第 1 個部分，將從文獻中既有的各種封閉經濟一般均衡貨幣模型的介紹開始，然後說明如何依據擬分析的開放經濟議題，進行模型的延伸修改。 開放經濟的總體議題繁多，本課程的第 2 與第 3 個部分，將以「國際借貸」與「通貨替代」(或「分散的貨幣持有」) 兩個議題為例，進行相關政府政策意涵的探討。 本課程的目的在引導學員學習如何分析實質與貨幣模型中，從封閉經濟到開放經濟，政府相關政策角色的差異。在開放經濟的架構下，並可分析經常帳與國際債權/債務、風險貼水、以及匯率動態的決定等議題。
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研習營-經濟學門-金融衝擊與廠商決策	
講題領域	國際金融理論與實證
講員	林靜儀
講題	金融衝擊與廠商決策
講題簡介	【講題重要性】 Recent events have spurred interest in the financial sector as a source of business cycle fluctuations. Firm entry dynamics over the business cycle are an important part of the propagation of financial shocks to the real macroeconomy. The endogenous shift in a firm's financing choice in response to a financial shock helps explain the comovement of financial market conditions, firm valuations, and entry decisions. This mechanism also provides an example of how firm dynamics can serve as a potent propagation mechanism, generating very long-lasting effects of transitory macroeconomic shocks on trade. 【內容介紹】 1. Empirical study on firm dynamics, equity prices and trade margins to a financial shock. 2. The mechanics of the DSGE model with endogenous capital structure decisions by firm 3. Calibrations and simulations. 4. Extend the model to a open economy
建議閱讀文獻	Alessandria, George, and Choi, Horag, 2007, "Do Sunk Costs of Exporting Matter for Net Export Dynamics? The Quarterly Journal of Economics, Vol, 122 No. 1, pp. 289-336. Bergin, P.R., and Corsetti, G. (2008). 'The extensive margin and monetary policy', Journal of Monetary Economics, vol. 55(7). pp. 1222-37. Pissarides, eds., University of Chicago Press, pp. 201-27. Bergin, P, R., Ling Feng, and Ching-Yi Lin, 2018, "Firm Entry and Financial Shocks," The Economic Journal, Vol. 128, Issue 609, pp. 510-540 Bergin, Paul R., Ling Feng, and Ching-Yi Lin, 2018, "Financial Frictions and Trade Dynamics" IMF Economic Review (2018) 66: 480. Bergin, P.R., and Ching-Yi Lin, (2012). 'The dynamics effects of currency union on trade', Journal of International Economics, vol. 87(2), pp. 191-204. Bilbiie, F.O., Ghironi, F., and Melitz, M.J. (2012). "Endogenous entry, product variety, and business cycles', Journal of Political Economy, vol. 120(2), pp. 304-345. Chor, D., and Manova, K., (2012). 'Off the cliff and back? credit conditions and international trade during the global financial

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研習營-經濟學門-跨時最適化的小型開放經濟模型之介紹：以通貨替代議題為例	
講題領域	國際金融理論與實證
講員	曹添旺
講題	跨時最適化的小型開放經濟模型之介紹：以通貨替代議題為例
講題簡介	【講題重要性】 國際金融領域自 1980 年代開始，就由 Calvo, Dornbusch, Frenkel, Helpman, Obstfeld, Razin, Sen, Stockman, Svensson,及 Turnovsky 等學者倡導跨時最適化特質的研究方法，這種分析方式不僅可以延伸總體經濟學的實質景氣循環分析至國際性的實質景氣循環 (international real business cycle)，探討經常帳動態調整(current account dynamics)及通貨替代(currency substitution)議題，而且可以聯結晚近 1990 年代走紅的內生成長理論，因而成為國際金融理論的研究主流之一。另一方面，通貨替代也是當今國際金融領域的一個重要研究議題。其在國際金融理論之應用可分為兩大支流：一個支流關心通貨替代對貨幣需求與貨幣自主性之影響 (Chen, 1973；Miles, 1978；Chen et al., 1981； Chen and Tsaur, 1992)；另一支流則專注在通貨替代對匯率動態的影響(Calvo and Rodriguez, 1977；Livitan, 1981；Park, 1987；Chenet al., 1989)。晚近的發展與第一支流有關的，係探討通貨替代現象的存在，會如何影響最適的通貨膨脹率? (例如 Vegh, 1989a, 1989b, 1989c, 1995 等)；而諸多文獻(例如：Karaken and Wallace, 1981；Barnett, 1992；King et al.,1992；Benhabib and Farmer, 1996 等)則分析通貨替代下，匯率內生性波動的現象及匯率不確定性 (indeterminacy)發生的條件，這可算是通貨替代的第二個支流問題的延伸。這些論著有一項共通的特色：那就是所使用的分析架構都建構了個體基礎(microfoundation)。這些模型或假設貨幣帶給人們效用而將貨幣直接放在效用中(money-in-the-utility function)(例如：Livitan, 1981；Calvo, 1985)，抑或假設交易一定需使用貨幣而採取「事先現金限制(cash-in-advance constraint)」 (例如：Uribe, 1999)，或者假設持有貨幣可以降低交易成本 (transactions costs)(例如：Vegh, 1989a, 1995)，但都利用效用極大化分析法(the utility maximization approach)來研究相關的議題。本講題旨在評介前述通貨替代理論的演進，藉此說明小型開放經濟的跨時最適化分析方法之應用。講述的內容涵蓋通貨替代的概念與意涵，及其與貨幣政策自主性和匯率動態行為的關聯，而相關結論則與跨時最適化模型的特性息息相關。此外，鑑於近二十年來，中國高度出口導向的經濟成長，造成龐大的貿易順差、累積巨額的外匯。人民幣國際地位因而相對提升且匯率變動的空間也相應加大，台灣民眾勢將在資產組合中考慮調整人民幣與美元等外幣的持有。本講題也試圖利用相關數據進一步探討人民幣寬鬆對台灣經濟的衝擊，與央行政策反應及其影響。

	【內容介紹】 (1) 通貨替代的概念與意涵 (2) 雙元通貨需求函數 (3) 通貨替代與貨幣自主性 (4) 通貨替代與匯率動態 (5) 跨時最適化模型的應用 (6) 三元通貨模型：人民幣匯率變動與通貨替代
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榮譽獎項	美國哈佛大學燕京學社 (Harvard Yenching Institute) 訪問學人獎學金 (民國 74-75 年) 行政院國科會傑出研究獎（78~79、80~81 年度 ） 行政院國科會優等研究獎（76、77、82、83 年度 ）

研習營-經濟學門-開放經濟的內生成長理論	
講題領域	國際金融理論與實證
講員	賴景昌
講題	開放經濟的內生成長理論
講題簡介	【講題重要性】 1980 年代中期之後，由 Romer (1986) 及 Lucas (1988) 所發展的內生成長理論，利用人力資本的累積、研究與發展及其他的機制，避開資本邊際生產力遞減的性質，得以解決 Solow (1956) 外生成長模型每人實質所得停滯的缺失。 自 1990 年代中期之後，已經有學者將內生成長理論應用於開放經濟的議題。諸如 Razin and Yuen (1996) 設計實質資本 (機器設備) 於國際間移動的開放經濟模型，討論各國政府課徵不同的資本所得稅稅率將會促使這些國家呈現不同的每人所得成長率。Turnovksy (1996) 則是設計本國民眾可以持有國外實質債券的開放經濟模型，藉以討論本國政府課徵不同類型的租稅 (消費稅、所得稅、國外債券利息所得稅) 將如何主導消費成長率、實質資本成長率、所得成長率、及國外債券成長率。自此之後，投入開放經濟內生成長議題的學者有日漸增多的趨勢。 然而，或許是由於計算太過複雜，上述開放經濟內生成長的研究幾乎皆停留於「實質面」的範疇，它們皆有意地忽略貨幣的角色；也就是說，早期的文獻皆侷限於討論「物物交換」(出口品換進口品) 的經濟體系。這樣的特殊限制對於國際金融領域而言是明顯地不搭調，因為國際金融特別重視「名目匯率」的機制，而「名目匯率」正是本國貨幣與外國貨幣交換的比率，拿掉了貨幣，就有如拿掉國際金融的本質，無法討論「名目匯率」的相關議題。這個問題直到 2000 年代中期 Bianconi and Fisher (2005) 及 Shaw, Lai, and Chang (2005) 相繼將貨幣引進開放經濟的內生成長模型，才獲得解決。 毫無疑問地，內生成長理論是總體經濟領域重要的研究議題，且國際金融理論一向是依附著總體經濟理論的創新而日新月異的發展。我們認為納入「貨幣面」的考量之後，未來「開放經濟的內生成長理論」將會成為國際金融領域重要的研究議題。 【內容介紹】 這個課程擬深入地回顧開放經濟體系內生成長理論的發展，講題將涵蓋以下三個相關的子題: (1) 介紹開放經濟體系外生成長理論與內生成長理論的特質及差異；相關的回顧文獻見 Turnovsky (2002)。 (2) 回顧 1990 年代中期所發展，僅專注「實質面」的開放經濟內生成長理論；相關的回顧文獻見 Turnovsky (2009)。 (3) 回顧 2000 年代中期所發展，同時兼顧「實質面」及「貨幣面」的開放經濟內生成長理論；相關的文獻見 Bianconi and Fisher (2005) 及 Shaw, Lai, and Chang (2005)。

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榮譽獎項	行政院傑出科技榮譽獎（94 年度） 傑出人才發展基金會傑出人才講座（民國 89/2 迄 94/1） 教育部商科學術獎（80 年度） 國科會傑出研究獎（77-78 年度、79-80 年度、及 82-83 年度） 國科會特約研究獎（84-86 年度及 87-89 年度）

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<tr><th colspan="2">研習營-經濟學門-貨幣政策與匯率動態</th></tr>
<tr><td>講題領域</td><td>國際金融理論與實證</td></tr>
<tr><td>講員</td><td>陳旭昇</td></tr>
<tr><td>講題</td><td>貨幣政策與匯率動態</td></tr>
<tr><td>講題簡介</td><td>【講題重要性】
中央銀行為外匯市場上舉足輕重的參與者，因此，認識與了解央行的貨幣政策如何在外匯市場上影響匯率動態,遂為貨幣經濟與國際金融研究中一個相當重要的課題。近年來，內生貨幣政策(亦即貨幣政策反應函數，或稱貨幣政策法則）廣為學界認知為刻劃央行貨幣政策的重要方法。因此，央行貨幣政策如何受到匯率變動而改變，亦為一重要之研究主題。此外,央行政策如何影響匯率動態及其有效性，央行干預是否應公開透明,如何衡量未公開的央行干預，估算央行干預的成本以及匯率制度之決定等等，均為理論與實証上值得思考之議題。

【內容介紹】
(1) Monetary Policy and Exchange Rate Dynamics
(2) Monetary Policy Rule in the Open Economy
(3) Official Exchange Rate Intervention</td></tr>
<tr><td>建議閱讀文獻</td><td>(1) Monetary Policy and Exchange Rate Dynamics

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榮譽獎項	中央研究院年輕學者研究著作獎 (2008) 行政院國科會吳大猷先生紀念獎 (2007) 國立台灣大學教學優良獎 (2006, 2007, 2008) 蔣經國學術交流基金會博士論文獎學金 (2003)

研習營-經濟學門-校務研究與教育實證	
講題領域	個體理論與應用
講員	林世昌
講題	校務研究與教育實證
講題簡介	【講題重要性】 由於近來校務研究 (Institutional Research, IR) 在我國廣為各大專院校重視，教育部也鼓勵/獎勵大學成立校務研究專責機構 (Office of IR)，為大學內部的大小決策提供堅實的證據基礎 (evidence-based decision)，目前已有不少學校藉由 IR office 的功能及實證結果，進而提升老師教學以及學生的學習成效。而這些提供決策的證據需要良好的計量、統計工具，才不至於得到偏誤的政策分析，而導致錯誤的決策。由這個角度觀之，校務研究相當於校園的教育實證研究。這個演講主題就是要介紹何謂校務研究，何謂教育實證研究，兩者如何結合，以及如何在校園裡實施、推動校園的教育實證研究。 【內容介紹】 講演內容包括四大主題 1) 校務研究的基本介紹、2) 教育實證方法簡介、3) 校園如何實施校務研究以及 4) 校務研究實例： 1) 校務研究的基本介紹 什麼是校務研究? 為何要從事校務研究? 校務研究的決策模式 校務研究的簡史 (美國、日本等) 校務研究的範疇 校務研究的運作條件 2) 教育實證方法簡介 Method vs. data Basic statistics Linear regression Logit/Probit/Poisson regression Panel regression Endogeneity with education data 3) 校園如何實施校務研究 教育部協助校務研究的推廣 校務研究的資料整合 我國實施校務研究的困境 適合國情的校務研究 4) 校務研究實例 多元入學管道評估 清大教育資料的整合 -- 官方與調查資料 清大教育資料的其他應用 其他教育資料的應用

建議閱讀文獻	Angrist, J. and A. Krueger. Empirical strategies in labor economics. In O. Ashenfelter and D. Card, editors, Handbook of Labor Economics, volume 3, pages 1277--1366. Elsevier Science, 1999. Akerlof, G. and R. Kranton. Identity and Schooling: Some Lessons for the Economics of Education. Journal of Economic Literature, 40(4):1167--1201, 2002. Duflo. E. Schooling and Labor Market Consequences of School Construction in Indonesia: Evidence from an Unusual Policy Experiment. The American Economic Review, 91(4):795--813, 2001. Hsieh, Hsiao-Chin, Samuel S.M. Peng, S-Y Kou, Y-F Yan, Y-T Lin, Eric S. Lin, and Su-Yen Chen. One Campus, Diverse Experience: A Study on NTHU Students' Learning Experiences. Tsinghua Journal of Education, 35(3), 55--66, 2014. (in Chinese) Krueger, A. B. Inequality, too much of a good thing. Paper to the Princeton University Industrial Relations Section. Princeton, NJ: Princeton University Press, April 2002. Krueger, A. B. Economic Considerations and Class Size. Economic Journal, 2003. Levin, H. Mapping the Economics of Education. An Introductory Essay. Educational Researcher, 18(4):13--73, 1989. Lin, Eric S. and Yu-Lung Lu. The Causal Effect of the Cram Schooling Timing Decision on Math Scores. Economics Bulletin, 30(3), 2330--2345, 2010. Lin, Eric S. Gender Wage Gaps by College Major in Taiwan: Empirical Evidence from 1978-2003 Manpower Utilization Survey. Economics of Education Review, 29(1), 156--164, 2010. Lin, Eric S. and Shih-Yung Chiu. Can a Doctoral Degree Be Completed Faster Overseas Than Domestically? Evidence from Taiwanese Doctorates. Higher Education, 68(2), 263--283, 2014. Lin, Eric S. and Yu-Lung Lu. The Educational Achievement of Pupils with Immigrant and Native Mothers: Evidence from Taiwan. Asia Pacific Journal of Education, 36(1), 48--72, 2016. Lin, Eric S. and Shih-Yung Chiu. Does Holding a Postdoctoral Position Bring Benefits for Advancing to Academia? Research in Higher Education (Official journal of AIR), forthcoming, 2016. Lin, Ming-Chia, Hsiang Yu, and Eric S. Lin. Validating University Graduate Attribute Scale. Higher Education Evaluation and Development, 8(1), 59--84, 2014. Lu, Yu-Lung, Stephen Chou and Eric S. Lin. Gender Differences in the Impact of Weight Status on Academic Performance: Evidence from Adolescents in Taiwan. Children and Youth Services Review, 46, 300--314, 2014. Sacerdote, B. Peer Effects with Random Assignment: Results for Dartmouth Roommates. Quarterly Journal of Economics, 681--704, 2001. Yun, Myeong-Su and Eric S. Lin. Alternative Estimators for the Gender Wage Gap by Industry: A Normalized Equation Approach. Pacific Economic Review, forthcoming, 2016.

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著作	Chuang, Hwei-Lin, Eric S. Lin and Shih-Yung Chiu* (2018): "The Gender Wage Gap in the Financial Industry: Evidence from the Interindustry Ranking," International Review of Economics & Finance, 55, 246–258. Chuang, Hwei-Lin* and Eric S. Lin (2017): "The Employment Status of Marriage Immigrants in Taiwan," Advances in Pacific Basin Business, Economics and Finance Vol: 5, 121–150. Chu, Jo-Yin* and Eric S. Lin (2017): "The Learning Effectiveness About the Ability of Critical Thinking in General Courses and its Application of Institutional Research," Journal of Education & Psychology, 40(4), 29–62. Lin, Eric S.* and Ta-Sheng Chou (2018): "Finite-Sample Refinement of GMM Approach to Nonlinear Models Under Heteroskedasticity of Unknown Form," Econometric Reviews, 37(1), 1–28. Lin, Ming-Chia* and Eric S. Lin (2017): "The Role of Learning Antecedents and Quality in Predicting OpenCourseWare Utility: Preliminary Evidence from University and Public Learners," International Journal on Digital Learning Technology, 9(1), 71–104. Lin, Ming-Chia and Eric S. Lin* (2017): "Development of the College-Attendance Value Scale for Second-Year Students in Taiwan," Higher Education Evaluation and Development, 11(1), 38–54. Wu, Yi-Hua, Chih-Chin Ho and Eric S. Lin* (2017): "Measuring the Impact of Military Spending: How Far Does a DSGE Model Deviate from Reality?" Defence and Peace Economics, 28(5), 585–608. Lin, Eric S.* and Shih-Yung Chiu (2016): "Does Holding a Postdoctoral Position Bring Benefits for Advancing to Academia?" Research in Higher Education (Official Journal of

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研習營-經濟學門-邁向個體選擇理論的再次重建之路：跨界得與失的序數邊際效用分析法	
講題領域	個體理論與應用
講員	林忠正
講題	邁向個體選擇理論的再次重建之路：跨界得與失的序數邊際效用分析法
講題簡介	【講題重要性】 「消費者追求預算限制下極大化總效用的分析架構」，向來是經濟學家主要採用的個體選擇理論的分析與教學架構。龐大的現代經濟理論體系有很大的部分是藉由這個分析架構不斷地逐漸建構起來的。 這個講題非常特別，是一個非常大膽的講題。 這個講題要告訴你說，林忠正等人發展了一套新的個體選擇的新分析架構。這套新分析架構是由第一個假設開始就不同於現今主流的極大化總效用分析典範。因為兩個分析架構是由第一個假設開始就不相同了，兩個分析架構因此會各自建構與發展出不同的理論體系。 這個講題所聚焦的研究層次或目標，屬於不同分析架構或不同典範之間的比較與競爭的議題，屬於最基礎的經濟理論的建構層次；而不是普通常見的在既定的典範之下，進行不同議題的討論與分析的理論應用層次。 我們會提出明確的證明與很多的案例向你說明，「對於任何一個由效用理論出發的個體選擇模型而言，建構於新分析架構的理論模型的表現都會優於建構於舊分析架構的對應的理論模型。」因此，新分析架構很有潛力取代現今主流的分析典範。 這個演講先藉由回顧相關經濟學文獻，陳述現代經濟理論所採用的兩種主要效用理論─序數效用理論(the ordinal utility theory)與基數效用理論(the cardinal utility theory)─的簡單發展史。藉著歷史文獻的紀錄來呈現這兩種效用理論，在建構時日當時就有經濟學家已經了解且有共識的各自的嚴重缺陷，以闡明為何由 Pareto 發動而由 Hicks 和 Allen 發揚光大的序數效用革命尚未成功，並使得現代經濟理論陷入一個非常尷尬的兩難困境之中。 這項兩難困境，一是經濟學家勉強地採取序數效用理論的觀點，此時效用具有只能排序大小的優點，而沒有效用變成像長度一樣是可以衡量的缺點，但必須放棄一些被廣泛接受的邊際效用遞減等觀念，例如此理論不允許說「我愈來愈累了或

工作愈久我感到愈來愈累了」，一些經濟學家批評這是一種主張「截肢」或「將邊際效用的純真嬰兒與基數的骯髒洗澡水一起倒掉」的怪異理論。二是經濟學家無奈地採取基數效用理論的觀點，此時可以保留被廣泛接受的邊際效用遞減等觀念，但必須在先驗假設上接受一種 Samuelson (1938)所強調的「無限地不可能的」(infinitely improbable)效用概念，在後果上等於是接受效用像長度一樣是可以衡量的非常強烈概念，基本上經濟學又走回古典效用理論效用可衡量的老路。

這兩條理論道路都是有很大缺失的理論大道。經濟學發展迄今，雖然一些頂尖經濟學家竭盡所能，但還是沒能發展出更好的效用理論，可以走出這個兩難困境。如何尋覓一套有兩種主要效用理論優點而無其缺點的兩全其美的新效用理論，一種能容許邊際效用遞減等概念的序數效用理論，一種能讓經濟學家可以名正言順地大聲說出「我愈來愈累了」的新理論，「至今還是經濟學最令人費解的謎團之一」，甚至被認為是一項不可能的任務。

由於效用理論是個體選擇理論的根基，個體選擇理論又是後續目不暇給的龐大經濟學選擇理論的根基，效用理論有大問題表示立基於其上的巨大經濟理論體系是建立在不穩定的基石上。因此尋找更好的基石以重建更好的經濟理論無論是多麼艱難的研究任務，還是值得前仆後繼努力以赴的研究志業。

林忠正等人嘗試提出一種有兩種舊效用理論的優點而無其缺點的新效用理論─跨價值觀的「得」與「失」的序數邊際效用分析法─以邁向實現此不可能任務之路。在新分析架構之下，效用概念是不可衡量的序數概念，並且邊際效用遞減等概念也是序數效用的概念，此時經濟學家終於可以理直氣壯地說「工作愈久我感到愈來愈累了」。

如前所述，這套新分析架構是由第一個假設開始就不同於現今主流的極大化總效用分析架構，兩個分析架構因此會各自建構與發展出不同的理論體系。我們會提供明確的證明與很多的案例向你說明，「對於任何一個由效用理論出發的個體選擇模型而言，建構於新分析架構的理論模型的表現都會優於建構於舊分析架構的理論模型。」

我希望能告訴你在怎樣的偏好公設下可以建構出此新的效用理論。我也希望能告訴你在新的分析架構之下，如何重新定義替代與互補品、正常品與劣等品、炫耀性商品等概念。我也希望能告訴你在新的分析架構之下，為何商品需求曲線斜率會為負、為何勞動供給會後彎、要怎樣建構新的儲蓄理論、以及將以什麼新方程式來取代知名的 Slutsky equation…等等多

	方面的題材。我也希望能告訴你，如何將同一個問題(如季節性商品、商品廣告、重男輕女、吸毒與法律經濟學的相關議題)在舊的和新的分析架構之下進行比較分析，以非常明確地展現兩分析架構的相對優缺點。 透過這個講題，我希望你可以初步體會這套新的個體選擇的新分析架構的基本精神與精華。 我也希望能說服你，效用理論是經濟理論的基礎理論，建構出更佳的效用理論將可以建構出更好的新的整套經濟理論。最後，我也希望能說服你，也很歡迎你，嘗試在課堂上將新分析架構介紹給下一世代的經濟學學生，嘗試應用新分析架構去建構後續的龐大經濟理論，也就是嘗試共同參與此新分析架構個體選擇理論的再次重建工程。
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榮譽獎項	2007 年國科會「優秀年輕學者養成計畫」補助 2002 年－2007 年國科會研究獎（甲等）

研習營-經濟-婦幼健康與醫療需求	
講題領域	個體理論與應用
講員	陳欽賢
講題	婦幼健康與醫療需求
講題簡介	【講題重要性】 如何提升婦女與幼童的健康，向來是世界各國政府關心的重點，也是醫療經濟學家研究的主題。適足的婦幼醫療照護可以降低罹病率以及死亡率，增加婦幼的健康，因此婦幼醫療需求議題的相關研究持續不斷地獲得重視。我國由於全民健康保險制度的實施，一方面提供免費的預防保健及生產服務，另一方面又以少許的部份負擔提供治療服務，對於婦幼醫療需求產生重大的影響，自然也吸引研究者投入此一議題的研究，同時也容易獲得國際的重視，因為我國的經驗可作為國外的借鏡。本講題將由兩個部分組成：第一部分是探討全民健保制度實施的影響，包括婦女產前檢查與子宮抹片檢查的需求與利用，以及新生兒照護需求與利用。第二部分則探討剖腹產的需求與利用，分別從新生兒性別區域差異以及醫師角度來探討影響剖腹產的因素，其次則比較剖腹產與自然產產後對婦女醫療利用與支出的影響。 【內容介紹】 1.全民健保制度的影響 孕婦產前檢查需求與利用 婦女子宮抹片檢查需求與利用 新生兒照護需求與利用 新生兒預防照護與治療照護之關聯 產前檢查對婦幼健康的影響 2.剖腹產的需求與利用 新生兒性別 區域差異 醫師性別 剖腹產後醫療利用 財務誘因
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榮譽獎項	1.教學 國立台北大學 100 學年度教學傑出教師獎 國立台北大學教學優良教師獎(95,98~99,102~103 學年度) 2.研究 科技部大專校院特殊優秀人才獎勵(99-104 年度) 國立台北大學教師研究獎助(98~104 學年度) 國立台北大學 93 學年度卓越教師研究獎(特優) 3.服務 國立台北大學 101 學年度傑出績優導師

研習營-經濟學門-教育與健康、經濟的影響	
講題領域	個體理論與應用
講員	簡錦漢
講題	教育與健康、經濟的影響
講題簡介	【講題重要性】 教育與一些社經濟成就的關係向來都是社會科學研究人員有興趣的議題。經濟學者關心的是教育對這些行為或成就的因果關係。教育與社經成就的關係非常複雜：他們不但可能互相影響，更會同時受不可觀察的英數所影響。這讓因果關係的估計變 成一項非常有挑戰性的工作。本課程的目的是介紹教育可能影響的一些個人社會、經濟面相；估計因果關係所需要的資料及方法。 【內容介紹】 1. 文獻中教育與社會、經濟面相(特別是健康)間因果關係的一些研究成果；一些臺灣的例子 2. 近期的熱門、前瞻議題 3. 研究方法的介紹 4. 研究與發表經驗交流
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著作	Kan, Kamhon and Myoung-Jae Lee(2017), "The Effects of Education on Fertility: Evidence from Taiwan," Economic Inquiry, Accepted. Chen, Yin-Hua, Ying-Chun Chen, Wen-Jui Kuo, {Kamhon Kan, C.C. Yang, and Nai-Shing Yen(2017), "Strategic Motives Drive Proposers to Offer Fairly in Ultimatum Games: An fMRI Study," Scientific Reports, 7(1), Article number: 527. Chen, Jong-Rong, Kamhon Kan, I-Hsuan Tung(2016), "Scientific Linkages and Firm Productivity: Panel Data Evidence from Taiwanese Electronics Firms," Research Policy, 45(9), 1449-1459. Kan, Kamhon, Shin-Kun Peng, Peng Wang(2016), "Understanding Consumption Behavior: Evidence from Consumers' Reaction to Shopping Vouchers," American Economic Journal: Economic Policy, 9(1), 137-153. Hsu, Li-Chen, Kamhon Kan, C.C. Yang, and Chun-Lei Yang(2015), "An Experimental Study on Dividing Gains through Politics," Scottish Journal of Political Economy, 62(5), 546-566. Kan, Kamhon, I-Hsin Li, Ruey-Hua Wang(2014), "Intergenerational Income Mobility in Taiwan: Evidence from TS2SLS and Structural Quantile Regression," B.E. Journal of Economic Analysis and Policy, 15 257-284. Kan, Kamhon, Shu-Fen Li and Wei-Der Tsai(2014), "The Impact of Global Budgeting on Treatment Intensity and Outcomes," International Journal of Health Care Finance & Economics, 14 311-337.

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榮譽獎項	Academia Sinica Investigator Award(2007– 2011) Distinguished Research Award, National Science Council, Taiwan (1999, 2004) Academia Sinica Research Award for Junior Research Investigators, Taiwan (2001)

研習營-經濟學門-市場實驗與行為賽局論之簡介	
講題領域	個體理論與應用
講員	王道一
講題	市場實驗與行為賽局論之簡介
講題簡介	【講題重要性】 實驗經濟學可略分有兩大研究主題「市場設計（market design）」和「行為賽局論（behavioral game theory）」。「市場設計」所問的問題是：給定我們已經知道大量市場實驗的結果，面對不同的產業，我們能否設計一個新的交易制度來達到我們的目的(譬如說增進效 率)？而「行為賽局論」則跳脫了一般賽局論純數學的框架，嘗試預測真人在不同遊戲規則 下如何做決定，可能會犯哪些錯誤等等。我們希望透過幾個著名的實驗來介紹這兩大主題。 參考網址：https://www.coursera.org/learn/shiyan-jingji-xue 【內容介紹】 （1）市場實驗與市場設計 a）發現看不見的手 （Seeing the Invisible Hand） b）部分均衡理論的市場實驗 c）市場實驗的應用：市場設計 （2）行為賽局論（Behavioral Game Theory） a）最後通牒談判（Ultimatum Game）實驗 b）選美結果預測實驗（p-Beauty Contest Game or Guessing Game） c）產業發展分水嶺實驗（Continental Divide） （3）經濟學實驗方法 a）經濟學實驗的定義與構成要素 b）實驗設計的基本原則 c）實驗設計的各種選項 d）經濟學實驗的研究倫理
建議閱讀文獻	Bergstrom (2003), "Vernon Smith's Insomnia and the Dawn of Economics as Experimental Science," *Scandinavian Journal of Economics*, 105 (2), 181-205. Camerer (2003), *Behavioral Game Theory*, Princeton University Press Chamberlin (1948), "An Experimental Imperfect Market," *Journal of Political Economy*, 56, 95-108. Güth, Schmittberger, and Schwarze (1982), "An Experimental Analysis of Ultimatum Bargaining," *Journal of Economic Behavior and Organization*, 3 (4), 367-388. Holt (1996), "Classroom Games: Trading in a Pit Market," *Journal of Economic Perspectives*, 10 (1), 193-203. McKelvey and Palfrey (1995), "Quantal Response Equilibria for Normal Form Games,"*Games and Economic Behavior*, 10 (1),

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Smith (1982), "Microeconomic Systems as an Experimental Science," *American Economic Review*, **72 (5)**, 923-955.

王道一	
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經歷	國立台灣大學經濟系副教授 國立台灣大學經濟系助理教授 美國加州理工學院博士後研究員
著作	Cai, Hongbin and Joseph Tao-yi Wang (2006), "Overcommunication in Strategic Information Transmission Games," Games and Economic Behavior, 56(1), 7-36. Knoepfle, Daniel, Joseph Tao-yi Wang and Colin F. Camerer (2009), "Studying Learning in Games Using Eye-Tracking," Journal of the European Economic Association, 7(2-3), 388-398. Kang, Min Jeong, Ming Hsu, Ian M. Krajbich, George Loewenstein, Samuel M. McClure, Joseph Tao-yi Wang and Colin F. Camerer (2009), "The Wick in the Candle of Learning: Epistemic Curiosity Activates Reward Circuitry and Enhances Memory," Psychological Science, 20(8), 963-973. Wang, Joseph Tao-yi, Michael Spezio and Colin F. Camerer (2010), "Pinocchio's Pupil: Using Eyetracking and Pupil Dilation To Understand Truth Telling and Deception in Sender-Receiver Games," American Economic Review, 100(3), 984-1007. Wang, Joseph Tao-yi (2010), "Pupil Dilation and Eye-Tracking," in A Handbook of Process Tracing Methods for Decision Research: A Critical Review and User’s Guide, ed. by Michael Schulte-Mecklenbeck, Anton Kuhberger and Rob Ranyard, Psychology Press, 185-204. Ostling, Robert, Joseph Tao-yi Wang, Eileen Chou and Colin F. Camerer (2011), "Testing Game Theory in the Field: Swedish LUPI Lottery Games," American Economic Journal: Microeconomics, 3(3), 1-33. Kuo and Wang (2014), "Use of Strategy Methods in Experimental Pivotal-Voting Game," Pacific Economic Review, 19(3), 387-400. Liu, Meng and Wang (2014), "Confucianism and Preferences: Evidence from Lab Experiments in Taiwan and China," Journal of Economic Behavior & Organization, 104, 106-122. Mohlin, Ostling and Wang (2015), "Lowest Unique Bid Auctions with Population Uncertainty," Economics Letters, 134, 53-57. Lai, Lim and Wang (2015), "An Experimental Analysis of Multidimensional Cheap Talk," Games and Economic Behavior, 91, 114-144.

	Hsieh and Wang (2016), "Cheap Talk Games: Comparing Direct and Simplified Replications," Research in Experimental Economics, Vol. 19, Experiments in Organizational Economics, 19-38.
榮譽獎項	行政院科技部傑出研究獎(2019) 行政院國科會吳大猷先生紀念獎(2011) 中研院年輕學者研究著作獎(2011) 第三屆溫世仁服務科學新苗獎(2010)

研習營-經濟學門-經濟泡沫	
講題領域	個體理論與應用
講員	鍾劍修
講題	經濟泡沫
講題簡介	【講題重要性】 在這個後金融海嘯的世界裡，沒有經濟學家可以迴避研究經濟泡沫的責任。事實上，經濟學在過去數十年對經濟泡沫的研究，不論個體或總體經濟學家都曾作出重要的貢獻，所以這個講題也是一個個體和總體經濟理論的對話。 【內容介紹】 1. 泡沫的好處（提供流動性） 2. 泡沫的壞處（資源錯配，經濟波動） 3. 如何應付泡沫
建議閱讀文獻	Franklin Allen and Douglas Gale (2000), “Bubbles and Crises.” Economic Journal, 110: 236-255. Franklin Allen and Gary Gorton (1993), “Churning Bubbles.” Review of Economic Studies, 60(4): 813-836. Franklin Allen, Stephen Morris, and Andrew Postlewaite (1993), “Finite Bubbles with Short Sale Constraints and Asymmetric Information.” Journal of Economic Theory, 61: 206-229. Peter DeMarzo, Ron Kaniel, and Ilan Kremer (2008), “Relative Wealth Concerns and Financial Bubbles.” Review of Financial Studies, 21(1): 19-50. Behzad Diba and Herschel Grossman (1987), “On the Inception of Rational Bubbles.” Quarterly Journal of Economics, 102(3): 697-700. Behzad Diba and Herschel Grossman (1988), “Explosive Rational Bubbles in Stock Prices?” American Economic Review, 78(3): 520-530. Behzad Diba and Herschel Grossman (1988), “Rational Inflationary Bubbles.” Journal of Monetary Economics, 21: 35-46. Behzad Diba and Herschel Grossman (1988), “The Theory of Rational Bubbles in Stock Prices.” Economic Journal, 98: 746-754. Emmanuel Farhi and Jean Tirole (2012), “Bubbly Liquidity.” Review of Economic Studies, 79: 678-706. Michael Harrison and David Kreps (1978), “Speculative Investor Behavior in a Stock Market with Heterogeneous Expectations.” Quarterly Journal of Economics, 92(2): 323-336. Boyan Jovanovic (2013), “Bubbles in Prices of Exhaustive Resources.” International Economic Review, 54(1): 1-34. Jacques Olivier (2000), “Growth Enhancing Bubbles.” 41(1): 133-

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鍾劍修	
學歷	美國威斯康辛大學經濟學博士
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經歷	香港中文大學經濟系教授 美國明尼蘇達大學經濟系副教授 香港大學經濟系教授 美國西北大學經濟系助理教授
著作	Che, J., Chung, K., & Qiao, X. (2019). The king can do no wrong: On the criminal immunity of leaders. Journal of Public Economics, 170, 15-26. Cheng, Y. S., & Chung, K. (2018). Designing Property Rights over Land in Rural China. Economic Journal, 128(615), 2676-2710. Che, J., Chung, K., & Lu, Y. (2017). Decentralization and Political Career Concerns. Journal of Public Economics, 145, 201-210. Chung, K., & Fortnow, L. (2016). Loopholes. Economic Journal, 126, 1774-1797. Chung, K., & Lu, C. (2014). Non-homothetic preferences and IPRs protection. Journal of Development Economics, 109, 229-239. Chung, K., & Eso, P. (2013). Persuasion and learning by countersignaling. Economics Letters, 121(3), 487-491. Che, J., Chung, K., & Qiao, X. (2013). The Good, the Bad, and the Civil Society. Journal of Public Economics, 106, 68-76. Cheng, Y. S., & Chung, K. (2013). Too Many Mothers-in-Law?. Journal of Development Economics, 105, 69 - 76. Board, O., Chung, K., & Schipper, B. (2011). Two Models of Unawareness: Comparing the Object-Based and the Subjective-State-Space Approaches. Synthese, 179, 13-34. Chung, K., & Ely, J. C. (2007). Foundations of Dominant Strategy Mechanisms. Review of Economic Studies, 74(2), 447-476. Chung, K., & Olszewski, W. (2007). A Non-Differentiable Approach to Revenue Equivalence. Theoretical Economics, 2(4), 469-487. Chung, K., & Ely, J. C. (2004). Implementation with Near-Complete Informatin. Econometrica, 71(3), 857-871. Chung, K. (2000). Role Models and Arguments for Affirmative Action. American Economic Review, 90(3), 640-648. Chung, K. (2000). On the Existence of Stable Roommate Matchings. Games & Economic Behavior, 33(2), 206-230. Chung, K. (1999). A Note on Matsushima's Regularity Condition. Journal of Economic Theory, 87(2), 429-433.
榮譽獎項	Review of Economic Studies European Tour, 1999 Vilas Professional Development Fellowship (University of Wisconsin), 1999

研習營-經濟學門-拍賣、議價與訂價在網路中的研究(Auctions, Bargaining and Pricing in Networks)	
講題領域	個體理論與應用
講員	莊委桐 袁國芝
講題	拍賣、議價與訂價在網路中的研究(Auctions, Bargaining and Pricing in Networks)
講題簡介	【講題重要性】 價格與市場的關係一直是經濟學的核心問題之一。然而訂價過程與市場結構兩者的相互影響仍然存在許多值得研究的問題。近年來許多新興的研究以網路連結式的市場為對象，討論一連串與訂價理論相關的議題， 本課程著重於討論在相互連接經濟個體間的訂價模式。主要以賽局理論擅於分析的拍賣、議價與獨佔者訂價的三類文獻作為基礎，介紹並比較近年將這些價格分析方式應用在網路連結式市場的各類研究。 【內容】 (1) 在網路中利用拍賣進行交換的研究。 (2) 在網路中利用議價進行交換的研究。 (3) 獨佔廠商在網路式市場的差異訂價。
建議閱讀文獻	Ambrus, A. and R. Argenziano (2009). "Asymmetric Networks in Two-Sided Markets." American Economic Journal: Microeconomics 1(1): 17-52. Bayati, M., et al. (2015). "Bargaining Dynamics in Exchange Networks." Journal of Economic Theory 156(0): 417-454. Bloch, F., et al. (2008). "Informal Insurance in Social Networks." Journal of Economic Theory 143(1): 36-58. Bramoulle, Y., et al. (2014). "Strategic Interaction and Networks." American Economic Review 104(3): 898-930. Chaney, T. (2014). "The Network Structure of International Trade." American Economic Review 104(11): 3600-3634. Charness, G., et al. (2007). "Bargaining and Network Structure: An Experiment." Journal of Economic Theory 136(1): 28-65. Fainmesser, I. P. and A. Galeotti (2016). "Pricing Network Effects." Review of Economic Studies 83(1): 165-198. Firgo, M., et al. (2016). "Network Centrality and Market Prices: Empirical Evidence." Economics Letters 139: 79-83. Jackson, M. O. (2014). "Networks in the Understanding of Economic Behaviors." Journal of Economic Perspectives 28(4): 3-22.

Kamphorst, J. and G. van der Laan (2007). "Network Formation under Heterogeneous Costs: The Multiple Group Model." International Game Theory Review 9(4): 599-635.

Kranton, R. E. and D. F. Minehart (2000). "Competition for Goods in Buyer-Seller Networks." Review of Economic Design 5(3): 301-331.

Kranton, R. E. and D. F. Minehart (2001). "A Theory of Buyer-Seller Networks." American Economic Review 91(3): 485-508.

Matthew Leduc, et al. (2016). “Pricing and Referrals in Diffusion on Networks." Working Paper, Draft Date: February 2016.

Polanski, A. (2007). "Bilateral Bargaining in Networks." Journal of Economic Theory 134(1): 557-565.

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著作	Juang, Wei-Torng (2002),「When Stricter Evaluation Criteria Induce Poorer Performance」,《Academia Economic Papers》, 30(2), 183-206。 Juang, Wei-Torng (2002), "Rule Evolution and Equilibrium Selection," Games and Economic Behavior, 30(1), 71-90. Juang, Wei-Torng (2001), "Learning from Popularity," Econometrica, 69(3), 735-747. 袁國芝、莊委桐(2017),「金融機構集中度與金融網路穩定之分析」,《台灣銀行季刊》, 68(2), 46-53。 袁國芝、王子豪、莊委桐(2016),「十二年國教免試入學分發制度之賽局分析」,《經濟論文叢刊》, 44(2), 215-255。 林正峯、袁國芝、莊委桐(2015),「銀行放款緊縮決策分析」,《台灣銀行季刊》, 66(3), 132-164。 王婉如、莊委桐(2014),「不完全訊息下受歧視的少數族群分佈之分析」,《經濟論文叢刊》, 42(3), 363-404。
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著作	袁國芝、莊委桐(2017), 「金融機構集中度與金融網路穩定之分析」,《台灣銀行季刊》, 68(2), 46-53。 袁國芝、王子豪、莊委桐(2016), 「十二年國教免試入學分發制度之賽局分析」,《經濟論文叢刊》, 44(2), 215-255。
榮譽獎項	1. National Science Council Research Grant: 2006-2008. 2. Junior Fellowships, The Royal Economics Society, 2001-2002. 3. Scholarship from Ministry of Education, Taiwan, 1997-2001.

<table>
<tr><th colspan="2">研習營-經濟學門-競賽理論與應用</th></tr>
<tr><td>講題領域</td><td>個體理論與應用</td></tr>
<tr><td>講員</td><td>莊委桐
袁國芝</td></tr>
<tr><td>講題</td><td>競賽理論與應用</td></tr>
<tr><td>講題簡介</td><td>【講題重要性】
競賽理論可廣競賽理論與應用泛應用在許多社會與經濟的制度研究上。例如政黨與選舉的關係、司法訴訟中控辯雙方的互動、軍備競賽的利益、勞動市場的升遷、專利發明的保障、運動選拔的設計等等。其核心在於如何透過制度的設計引發參與競賽的個體為了追求唯一或是一系列中的一個獎品而做出不同程度的貢獻付出，進一步達到解決衝突與資源分配的目的。就真實世界分配的功能而言，競賽與集權管理或是市場協調一樣地扮演非常重要的角色。

【內容】
(1) 競賽理論
• Game Theory for Contests
• All-pay Contests
• Rank-Order Allocation of Prizes
• Simultaneous Contests
• Sequential Contests
• Tournaments
(2) 競賽理論之應用
• Sport Contests
• Rent-Seeking
• Labor Markets
• Political Campaigns</td></tr>
<tr><td>建議閱讀文獻</td><td>Alcalde, J. and M. Dahm (2007). "Tullock and Hirshleifer: A Meeting of the Minds," Review of Economic Design, 11(2), 101-124.
Alcalde, J. and M. Dahm (2010). "Rent seeking and rent dissipation: a neutrality result," Journal of Public Economics, 94(1-2), 1-7.
Amann, E. and W. Leininger (1996). "Asymmetric All-Pay Auctions with Incomplete Information: The Two-Player Case," Games and Economic Behavior, 14(1), 1-18.
Azmat, G. and M. Möller (2009). "Competition amongst Contests," The RAND Journal of Economics, 40(4), 743-768.
Baye, M. R., D. Kovenock and C. de Vries (1996). "The All-Pay Auction with Complete Information," Economic Theory, 8(2), 291-305.
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Yates, A. (2011). "Winner-Pay Contests," Public Choice, 147(1), 93-106.

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經歷	中央研究院經濟研究所助研究員
著作	Juang, Wei-Torng (2002),「When Stricter Evaluation Criteria Induce Poorer Performance」,《Academia Economic Papers》, 30(2), 183-206。 Juang, Wei-Torng (2002), "Rule Evolution and Equilibrium Selection," Games and Economic Behavior, 30(1), 71-90. Juang, Wei-Torng (2001), "Learning from Popularity," Econometrica, 69(3), 735-747. 袁國芝、莊委桐(2017),「金融機構集中度與金融網路穩定之分析」,《台灣銀行季刊》, 68(2), 46-53。 袁國芝、王子豪、莊委桐(2016),「十二年國教免試入學分發制度之賽局分析」,《經濟論文叢刊》, 44(2), 215-255。 林正峯、袁國芝、莊委桐(2015),「銀行放款緊縮決策分析」,《台灣銀行季刊》, 66(3), 132-164。 王婉如、莊委桐(2014),「不完全訊息下受歧視的少數族群分佈之分析」,《經濟論文叢刊》, 42(3), 363-404。
榮譽獎項	1. Ministry of Science and Technology Research Grant: 2015-2018 2. National Science Council Research Grant: 2001-2007 3. National Science Council Research Award: 1998-2000 4. Overseas Research Studentship, University of Cambridge, 1994-1996 5. Distinction in the M. Phil in Economics, University of Cambridge, 1993-1994 6. Scholarship from Ministry of Education, Taiwan, 1993-1997.

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研習營-經濟學門-契約理論與加密貨幣經濟學	
講題領域	個體理論與應用
講員	梁孟玉 鍾劍修
講題	契約理論與加密貨幣經濟學
講題簡介	【講題重要性】 1. 契約理論部分： 契約在現實社會上的運用，大到可用來規範集體公民的憲法、年金、健康保險等等的社會制度，小到如一般民間團體內的勞資、婚姻、租賃關係。近年來，更由於手機與電子商務的發達，以往一些用一手交錢一手交貨即可完成的現金購買方式，也越來越多透過契約來保障交易。我們透過經濟學提供的數學模型與分析，來闡述契約設計背後的精神。 2. 加密貨幣經濟學部分： The emergency of cryptocurrency received a lot of media hype. Some argue that it will create a new paradigm for the economy. Some regard it as another hoax in the Internet age. There are also hot debates in the central bank circle. Shall we restrict the usage of cryptocurrency? Or shall we embrace it? Bank of Canada is even considering issuing its own cryptocurrency. Economists are working frenetically to answer these new questions, tapping into old tools. In this course, we will survey some recent economic research in this emerging area. 【內容】 1. 契約理論部分： (1) 完全契約: 誘因設計 ● 道德淪喪 ● 逆向選擇 ● 多資訊原則 ● 多任務原則 (2) 不完全契約: ● 套牢問題 ● 財產權設計 ● 損害賠償 2. 加密貨幣經濟學部分： (1) Preliminaries: cryptography, hashing, private and public keys, time stamping (2) What is Bitcoin? Is Bitcoin a bubble? Some economics of speculative bubbbles (3) Ethereum; proof of stake; smart contracts; case study: cryptokitties (4) blockchain without cryptocurrencies

建議閱讀文獻	1. 契約理論部分： Hart, O., *Firms, Contracts, and Financial Structure*, Clarendon Press, Oxford, 1995. Hart, O. and J. Moore (1990), "Property Rights and the Nature of the Firm," *Journal of Political Economics*, 98(6), 1119-1158. Holmstrom B. (1979), "Moral Hazard and Observability," *Bell Journal of Economics*, 10, 74-91. Holmstrom B. and P. Milgrom, "Multitask Principal-Agent Analyses: Incentive Contracts, Asset Ownership, and Job Design," *JL Econ. & Org*. 24-52. Grossman, S. and O.Hart(1983), "An Analysis of the Principal-Agent Problem," *Econometrica*, 51, 7-45 Grossman, S. and O. Hart (1986), "The Costs and Benefits of Ownership: A Theory of Vertical and Lateral Integration," *Journal of Political Economy*, 94, 691-719. Shavell, S. (2004), *Foundation of Economic Analysis of Law*, Chapter 13. 梁孟玉 (2016),"諾貝爾經濟學獎_契約理論"，科學月刊 12 月號(564 期)-諾貝爾獎特別報導。 2. 加密貨幣經濟學部分： Catalini and Gans (2016), "Some Simple Economics of the Blockchain", NBER working paper w22952. Chiu, Jonathan and Mohammad Davoodalhosseini (2019), "Central Bank Digital Currency and Banking", working paper, Bank of Canada. Chiu, Jonathan and Thorseten Koeppl (2018), "Blockchain-Based Settlement for Asset Trading", working paper, Bank of Canada. Cong, Will and Zhiguo He (2018), "Blockchain Disruption and Smart Contracts", Review of Financial Studies. Dong, Bingbing, Lei Jiang, Xiaoyu Liu, and Yifeng Zhu (2019), "Liqquidity in Cryptocurrency Market and Commonalities across Anomalies", working paper, Tsinghua University. Dong, Mei and Sylvia Xiaolin Xiao (2019), "Central Bank Digital Currency, Financial Intermediation and Monetary Policy", working paper, Peking University. Evans (2014), "Economic Aspects of Bitcoin and Other Decentralized Public-Ledger Currency Platforms", working paper, University of Chicago. He, Chao, and Kim-Sau Chung (2019), "Introducing New Money: A New Monetarist Approach", working paper, Hong Kong

Baptist University.
Yermack, David (2015), "Is Bitcoin a Real Currency? An Economic Appraisal", Handbook of Digital Currency.
Yermack, David (2017), "Corporate Governance and Blockchains", Review of Finance.

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著作	Deneckere, Raymond and Meng-Yu Liang (2008), "Imperfect Durability and the Coase Conjecture," The Rand Journal of Economics, 39(1), 1-19. Deneckere, Raymond and Meng-Yu Liang (2006), "Bargaining with Interdependent Values," Econometrica, 74(5), 1309-1364. Chang, Chi and Meng-Yu Liang(1998), "A Characterization of the Lexicographic Kalai-Smorodinsky Solution for n=3," Mathematical Social Sciences, 35(3), 307-319.
榮譽獎項	中央研究院年輕學者研究著作獎 (2008) Wisconsin Alumni Research Foundation Dissertation Award (1998) The Young Economists, Essay Competition Award, The 25th Annual E.A.R.I.E. Conference (1998)

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著作	Che, J., Chung, K., & Qiao, X. (2019). The king can do no wrong: On the criminal immunity of leaders. Journal of Public Economics, 170, 15-26. Cheng, Y. S., & Chung, K. (2018). Designing Property Rights over Land in Rural China. Economic Journal, 128(615), 2676-2710. Che, J., Chung, K., & Lu, Y. (2017). Decentralization and Political Career Concerns. Journal of Public Economics, 145, 201-210. Chung, K., & Fortnow, L. (2016). Loopholes. Economic Journal, 126, 1774-1797. Chung, K., & Lu, C. (2014). Non-homothetic preferences and IPRs protection. Journal of Development Economics, 109, 229-239. Chung, K., & Eso, P. (2013). Persuasion and learning by countersignaling. Economics Letters, 121(3), 487-491. Che, J., Chung, K., & Qiao, X. (2013). The Good, the Bad, and the Civil Society. Journal of Public Economics, 106, 68-76. Cheng, Y. S., & Chung, K. (2013). Too Many Mothers-in-Law?. Journal of Development Economics, 105, 69 - 76. Board, O., Chung, K., & Schipper, B. (2011). Two Models of Unawareness: Comparing the Object-Based and the Subjective-State-Space Approaches. Synthese, 179, 13-34. Chung, K., & Ely, J. C. (2007). Foundations of Dominant Strategy Mechanisms. Review of Economic Studies, 74(2), 447-476. Chung, K., & Olszewski, W. (2007). A Non-Differentiable Approach to Revenue Equivalence. Theoretical Economics, 2(4), 469-487. Chung, K., & Ely, J. C. (2004). Implementation with Near-Complete Informatin. Econometrica, 71(3), 857-871. Chung, K. (2000). Role Models and Arguments for Affirmative Action. American Economic Review, 90(3), 640-648. Chung, K. (2000). On the Existence of Stable Roommate Matchings. Games & Economic Behavior, 33(2), 206-230. Chung, K. (1999). A Note on Matsushima's Regularity Condition. Journal of Economic Theory, 87(2), 429-433.
榮譽獎項	Review of Economic Studies European Tour, 1999 Vilas Professional Development Fellowship (University of Wisconsin), 1999

研習營-經濟學門-賽局理論與應用--基礎篇	
講題領域	個體理論與應用
講員	楊智鈞
講題	賽局理論與應用--基礎篇
講題簡介	**【講題重要性】** 經濟個體的競爭與合作是經濟學探討的核心議題。賽局理論旨在分析個體在群體裏的策略性行為、以及其後果與影響。大至國際貿易、投票行為、軍事行動等國際與國家層次上的分析，小至傳統的廠商定價、研發競賽、拍賣投標行為，乃至於個人職涯選擇、學生大考志願選填，皆是賽局理論分析應用的範疇。 本課程將介紹基礎的(非合作)賽局理論，藉由簡單的例子熟悉基本的納許均衡觀念，並進一步推廣至動態賽局的分析。本課程最後將介紹幾個經典賽局，幫助學生對賽局理論產生興趣。 **【內容】** A. 課程時數(6 hr) (1)賽局理論--Strategic games • Nash equilibrium • Refinements: perfect equilibrium (2) 賽局理論--Extensive games • Subgame perfect equilibrium • Trembling hand perfect equilibrium (3) examples B. 學人交流時數 (2 hr): John Nash 生平簡述。
建議閱讀文獻	Osborne, M. J. and A. Rubinstein, 1994. A Course in Game Theory. The MIT Press. Myerson, R. B., Game Theory, 1991, Harvard University Press.

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著作	Chih-Chun Yang (2015), "Weak Assumption and Iterative Admissibility," Journal of Economic Theory, 158 87-101. Xiao Luo, Chih-Chun Yang (2009), "Bayesian Coalitional Rationalizability," Journal of Economic Theory, 144 248-263.
榮譽獎項	科技部補助大專校院獎勵特殊優秀人才 (2015-2017) 科技部優秀年輕學者研究計畫 (2013-2016) 中央研究院人文社會科學組年輕學者赴國外進修計畫 (2014-2016) 中央研究院新聘學術研究獎金(2011.08—2013.07) 教育部留學獎學金 (2010) W. Allen Wallis Institute of Political Economy Fellowship, University of Rochester, 2008 Graduate Fellowship, University of Rochester, 2006-2007, 2009-2010

研習營-經濟學門-賽局理論與應用—進階篇	
講題領域	個體理論與應用
講員	楊智鈞
講題	賽局理論與應用—進階篇
講題簡介	**【講題重要性】** 經濟個體的競爭與合作是經濟學探討的核心議題。賽局理論旨在分析個體在群體裏的策略性行為、以及其後果與影響。個體的行為，無可避免地，受到其觀測到的、認知到的訊息，其本身的信念，以及對其他個體的信念所影響。傳統的均衡分析有許多精巧、隱蔽且不易理解的假設。認知賽局(Epistemic game theory)旨在嚴謹地檢視理性、對於理性的信念、以及對於信念的信念等基本假設，從而得出更一般，更符合真實人類處境的行為分析。 本課程介紹進階的(非合作)賽局理論，藉由簡單的例子(與課堂實作、討論)了解非均衡分析的緣由，由基本的可合理化(rationalizability)觀念，並進一步推廣至認知賽局的分析。本課程最後將介紹幾個經典賽局，幫助學生對此一課題產生興趣。 **【內容】** A. 課程時數(6 hr) (1) 賽局理論—non-equilibrium approach • Wilson’s doctrine • Rationalizability • Iterated elimination of dominated strategies (2) 賽局理論—epistemic analysis • Knowledge and belief • rationality (3) examples (esp. in experiments) B. 學人交流時數 (2 hr): 實驗賽局發展簡述。
建議閱讀文獻	Osborne, M. J. and A. Rubinstein, 1994. A Course in Game Theory. The MIT Press. Myerson, R. B., Game Theory, 1991, Harvard University Press.

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榮譽獎項	科技部補助大專校院獎勵特殊優秀人才 (2015-2017) 科技部優秀年輕學者研究計畫 (2013-2016) 中央研究院人文社會科學組年輕學者赴國外進修計畫 (2014-2016) 中央研究院新聘學術研究獎金(2011.08—2013.07) 教育部留學獎學金 (2010) W. Allen Wallis Institute of Political Economy Fellowship, University of Rochester, 2008 Graduate Fellowship, University of Rochester, 2006-2007, 2009-2010

研習營-經濟學門-合作賽局理論與應用	
講題領域	個體理論與應用
講員	葉俊顯 蔡明宏
講題	合作賽局理論與應用
講題簡介	**【講題重要性】** 經濟個體的互動行為經常是競爭與合作並存的，非合作賽局理論著重在分析經濟個體間策略競爭行為的研究，而合作賽局理論則是從規範性層面來探討如何以公平且合理的方式對於經由經濟個體彼此合作所產生的利益或損失進行分配。因此，對於一個利益（或損失）分配方法而言何謂公平或合理的準則，與如何找到讓參與分配的經濟個體皆能夠接受的利益（或損失）分配的方法，則是合作賽局理論的研究的核心之一。 本課程將從基礎的合作賽局理論模型（效用可移轉賽局(transferable utility game)）為出發點進行介紹，並簡介幾種在合作賽局理論中相當重要的利益（損失）分配方法，例如：核(the core)、議價集合(the bargaining set)、核心(the kernel)、核仁(the nucleolus)、夏普利值(the Shapley value)、均等解(the egalitarian solution)與穩定集合(the stable set)。此外我們將進一步探討當有數種分配方法同時存在時，那一種分配方法是最好且最公平？基於這個問題，我們將引進各式各樣的分配方法的性質，並利用這些性質來區分分配方法之間的異同性並可找出在特定情況下那一種分配方法最公平合理。另一方面我們將介紹由 Nash (1953)提出利用非合作賽局理論來探究合作賽局理論中分配方法的一種研究法：納許綱領(Nash program)。此研究法主要探討在給定的分配方法下，何種非合作賽局程序（制度）其均衡結果將會是上述分配法則所建議的分配結果。這種研究方法不僅能夠將合作與非合作賽局理論進行連結，且亦能分析程序或制度的不同如何影響分配結果的產生。 總言之雖然合作賽局理論雖然具有一定抽象性，但卻有相當多樣化的應用層面。而本課程最後將介紹幾種合作賽局理論的應用，譬如：破產問題、巢狀成本分攤問題、等候問題…等。 **【內容】** (1)合作賽局理論 • Transferable Utility (TU) game • Solution concepts in TU games: the core, the bargaining

	sets, the kernel, the nucleolus, the Shapley value, the egalitarian solution, and the stable set • Properties and axioms of solutions in TU games • The Nash program (2) 合作賽局理論應用 • 破產問題 • 巢狀成本分攤問題 • 等候問題
建議閱讀文獻	Aadland, D., Kolpin, V. 1998. Shared irrigation costs: An empirical and axiomatic analysis. Mathematical Social Sciences 35, 203--218. Aumann, R. J. 1985. An axiomatization of the non-transferable utility value. Econometrica 53, 599--612. Aumann, R.J. and M. Maschler, 1985. Game theoretic analysis of a bankruptcy problem from the Talmud. Journal of Economic Theory 36, 195--213. Chang, C., Hu, C.-C., 2008. A non-cooperative interpretation of the *f*-just rules of bankruptcy problems. Games and Economic Behavior 63, 133--144. Chatterjee, K., Dutta, B., Ray, D., Sengupta, K., 1993. A noncooperative theory of coalitional bargaining. Review of Economic Studies 60, 463--477. Chun, Y., 2016. Fair queueing. Springer. Dietzenbacher, B., Borm, P., Hendrickx, R., 2017. The procedural egalitarian solution. Games and Economic Behavior 106, 179--187. Dutta, B., 1990. The egalitarian solution and reduced game properties in convex games. International Journal of Game Theory 19, 153--169. Dutta, B., Ray, D., 1989. A concept of egalitarianism under participation constraints. Econometrica 57, 615--636. Gul, F., 1989. Bargaining foundations of the Shapley value. Econometrica 57, 81--96. Hu, C.-C., Tsay, M.-H., Yeh, C.-H., 2012. Axiomatic and strategic justifications for the constrained equal benefits rule in airport problems. Games and Economic Behavior 75, 185--197. Hu, C.-C., Tsay, M.-H., Yeh, C.-H., 2018. A study of the nucleolus in the nested cost sharing problem: axiomatic and strategic perspectives. Games and Economic Behavior 109, 82--98. Ju, Y., Chun, Y., van den Brink, J. R., 2014. Auctioning and selling positions: a non-cooperative approach to queueing conflicts. Journal of Economic Theory 153, 33--45.

Dagan, N., Serrano, R., Volij, O., 1997. A non-cooperative view of consistent bankruptcy rules. Games and Economic Behavior 18, 55--72.

Hart, S., Mas-Colell, A., 1989. Potential, value and consistency. Econometrica 57, 589--614.

Krishna, V., Serrano, R., 1996. Multilateral bargaining. Review of Economic Studies 63, 61--80.

Littlechild, S.C., Owen, G., 1973 A simple expression for the Shapley value in a special case. Management Science 3, 370--372.

Maschler, M., 1992. The bargaining set, kernel, and nucleolus. in: Handbook of game theory with economic applications, Volume I (R.J. Aumann and S. Hart, eds.), Elsevier Science Publishers B.V., Amsterdam, pp. 591--667.

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研習營-經濟學門-廠商競爭與區位選擇	
講題領域	公共與區域經濟學
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講題	廠商競爭與區位選擇
講題簡介	【講題重要性】 區位選擇是產業經濟學之下的一個重要分支，簡單來說就是將廠商競爭行為加入空間因子，並突顯其中區位選擇的關鍵影響。這個領域中最關鍵的 Hotelling (1929)模型後來也被其他經濟學領域所大量引用。 【內容介紹】 Hotelling (1929)模型首先引入空間（距離）因素，說明同一物品在不同地點確實可以有不同價格存在。接著探討兩家廠商在一個線型市場作區位與價格競爭，其結論若以最簡短的敘述來說明，即此雙占廠商在均衡時會聚集在市場中央並互不重疊地平分市場，兩家廠商的均衡價格與利潤皆相同。但 Hotelling (1929)並未考慮殺價競爭所導致的價格失衡問題，而後才有許多的文章企圖透過各種方式的努力以求得穩定均衡。另一方面，不斷地有學者將 Hotelling (1929)的模型加以變形，或是將其應用到不同領域。我們在此對 Hotelling (1929)模型的發展脈絡做一擇要式的分析，將廠商競爭與區位選擇問題勾畫出一個綿密的文獻關係圖。
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研習營-經濟學門-區位理論於網路與媒體經濟的應用	
講題領域	公共與區域經濟學
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講題簡介	講授時間請規劃於週二。 【講題重要性】 網路經濟的競爭課題以及媒體報導立場議題近年來於近年來日益受到學術界與實務界關注，部分重要網路與媒體競爭理論發展採用結合傳統的區位理論分析模式，利用此分析工具具備討論廠商差異化與競爭課題的特質，討論雙邊市場、媒體與政黨競爭等課題。 網路經濟之雙邊市場型態於近年來興起廣泛的應用，如信用卡市場、拍賣、網路交易、網路搜尋平台，網路及手機應用程式等。有別於傳統交易模式中廠商與消費者兩造之單純關係，雙邊市場則探討平台與兩邊參與者的互動關聯性，如智慧型手機的應用程式商店交易牽涉商店平台業者、應用程式以及消費者乃至於廣告商等多方關係，也衍生不同的訂價、消費行為與競爭型態，如在此雙邊市場中平台下常見對某一方採取免費方式等新型態。 媒體報導立場指媒體主觀性選擇性報導對於某些事情的報導方式，比方說對於經濟數據的採用較樂觀或者較悲觀的報導方式，或者對於政治醜聞案以較明顯或者較輕描淡寫的報導方式。如在美國 Fox News 偏好報導傾向於保守的立場的新聞，也因此較能吸引支持共和黨的觀眾，而 National Public Radio 則偏向於報導較自由的新聞，也就能吸引支持民主黨的聽眾。同樣不言可喻，在台灣許多報紙與電視節目也因其立場較為偏好某些政黨，而更能獲得支持觀眾的青睞。近年來興起許多媒體經濟理論研究，分別由需求面與供給面討論媒體偏誤之形成與影響。許多研究採用供給面觀點看待媒體偏誤，比如記者的職涯考量、編輯、乃至於媒體本身對於政黨的偏好所致，媒體編輯往往也得考慮到廣告收入，仍可能報導缺乏內涵的政治訊息。本課程的此部分內容將著重於考慮媒體報導立場下的媒體競爭、訂價行為及政黨競爭行為。 【內容介紹】 (1). 區域理論分析工具的回顧 (2). 區域模型於網路經濟與雙邊市場的應用 (3). 區域模型於媒體報導立場及政黨立場的應用。

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著作	"Downs Meets d∗Aspremont and Company: Convergence versus Differentiation in Politics and the Media," Wen-Chung Guo, Fu-Chuan Lai, Wing Suen (2018, Aug). International Journal of Industrial Organization, forthcoming. "Prices, Locations and Welfare when an Online Retailer Competes with Heterogeneous Brick-and-mortar Retailers," Wen-Chung Guo, Fu-Chuan Lai, Journal of Industrial Economics, 2017 (June), 65 (2), 439-468. "Where to Locate in a Circular City with a Foreign Market?" Wen-Chung Guo, Fu-Chuan Lai and Chia-Ming Yu (2016, Sep). 人文及社會科學集刊, 28 (3), 441-466. "Spatial Cournot competition in a linear–circular market," Wen-Chung Guo, Fu-Chuan Lai, The Annals of Regional Science, 2015 (May), 54 (3), 819-834. "A Hotelling Model with Production," Wen-Chung Guo, Fu-Chuan Lai and Dao-Zhi Zeng, Mathematical Social Sciences, 2015 (Jan.), 73: 40-49. "Media Bias When Advertisers Have Bargaining Power," Wen-Chung Guo and Fu-Chuan Lai, Journal of Media Economics, 2014 (Aug.), 27 (3): 120-136. "Media bias, slant regulation, and the public-interest media," Wen-Chung Guo and Fu-Chuan Lai, Journal of Economics, 2015 (April), 114 (3), 291-308. "Spatial competition with quadratic transport costs and one online firm," Wen-Chung Guo and Fu-Chuan Lai, The Annals of Regional Science, 2014 (Jan.), 52 (1), 309-324. "Spatial price discrimination and location choice with labor markets," Wen-Chung Guo and Fu-Chuan Lai, The Annals of Regional Science, 2014 (Jan.), 52 (1), 103-119. "Financial Leverage and Market Volatility with Diverse Beliefs," Wen-Chung Guo, Frank Yong Wang and Ho-Mou Wu, Economic Theory, 2011 (June), 47 (2-3), 337-364. "A study on intellectual capital and firm performance in biotech companies,“ Wen-Chung Guo, Shin-Rong Shiah-Hou and Wei-Jer Chien, Applied Economics Letters, 2012 (November), 19 (16), 1603-1608. "Equilibrium Information Acquisition, Prediction Abilities and Asset

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研習營-經濟學門- Theories of Heterogeneous Firms in International and Regional Economics and Their Quantitative Applications	
講題領域	公共與區域經濟學
講員	許文泰
講題	Theories of Heterogeneous Firms in International and Regional Economics and Their Quantitative Applications
講題簡介	【講題重要性】 How is international trade conducted? Obviously, it is the firms who export and import, but the roles of firms in traditional trade theories such as Ricardian and Heckscher-Ohlin is very obscure, most likely because of the assumption of perfect competition and constant returns to scale. There is also a literature in trade that discusses how trade affect behaviors of firms based on partial equilibrium and game theoretical models. Although this approach entails rich insights on firm behaviors, but it is not suitable for studying the effect of trade on macro phenomena such as wages, labor participation, agglomeration, exchange rates, etc. Theories of heterogeneous firms started by the seminal papers of Eaton and Kortum (2002) and Melitz (2003) build on general equilibrium models a la Krugman (1979, 1980) and incorporate elements from industrial organization. They not only introduce new insights of how firms matter for trade (in particular, gains from trade) and vice versa, but also allow richer implications on macro phenomena. 【內容介紹】 In this short series of lectures, I plan to introduce a few models in the past 15 years of development in the theories of heterogeneous firms in international and regional economics, as well as their quantitative applications. I will start with the seminal heterogeneous firms models such as Melitz (2003), Eaton and Kortum (2002), and Bernard, Eaton, Jensen, and Kortum (2003, AER). These models have wide applications and extensions in the literature, which is evolving very fast. After these models, I will select a few important quantitative applications in these fields, such as Waugh (2010), Lagokos and Waugh (2014), Eaton, Kortum, and Kramarz (2013), and Tombe and Zhu (2016). In the last few hours of the lecture, I will turn to discuss the implications of these new trade models on gains from trade. In particular, I will discuss Arkolakis, Costinot, Rodriguez-Clare (2012) and Melitz and Redding (2015).

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研習營-經濟學門-總體經濟下的財政政策和最適租稅	
講題領域	公共與區域經濟學
講員	陳明郎
講題	總體經濟下的財政政策和最適租稅
講題簡介	【講題重要性】 維持經濟的穩定與成長，向來是經濟學家關心的重點，也常是政府施政的目標之一。研究發現，財政以及租稅政策，密切影響一國經濟成長的表現。這個講題將從財政政策的角度出 發，深入淺出的探討政府的租稅政策以及財政政策對國民所得 及經濟成長的影響。講題中包含分析最適租稅，並討論最適租 稅下的經濟成長以及社會福利水準。 【內容介紹】 (1)新古典和內生經濟成長模型簡介 (2)租稅、財政政策與成長 (3)最適資本稅與成長
建議閱讀文獻	Barro, R., 1990, "Government spending in a simple model of endogenous growth," *Journal of Political Economy* 98, Part 2, S103-S125. Bond, E.W., P. Wang and C.K. Yip, 1996, "A general two sector model of endogenous growth with human and physical capital: balanced growth and transitional dynamics," *Journal of Economic Theory* 68, 149-173. Chamley, C. 1985, "Efficient tax reform in a dynamic model of general equilibrium," *Quarterly Journal of Economics* 100, 335-356. Chamley, C., 1986, "Optimal taxation of capital income in general equilibrium with infinite lives," *Econometrica* 54, 607-622. Chen, B.-L, 2003, "Tax Evasion in a Model of Endogenous Growth," *Review of Economic Dynamics* 6, 381-403. Chen, B.-L. and C.-H. Lu, 2013, "Optimal factor tax incidence in two-sector human capital-based models," *Journal of Public Economics* 97, 75–94. Chen, B.-L. and Chia-Hui Lu, 2015, " Optimal Capital Taxation in A Neoclassical Growth Model," *Journal of Public Economic Theory* 17, 257–269. Conesa, J.C., S. Kitao and D. Krueger, 2009, "Taxing capital? Not a bad idea after all!" *American Economic Review* 99, 25-48. Fisher, W. and S. Turnovsky, 1998, "Public investment, congestion, and private capital accumulation," *Economic Journal* 108,

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榮譽獎項	科技部傑出研究獎(2014-2016) 中山學術著作獎(2014) 國科會傑出研究獎(2010-2013)

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講題領域	公共與區域經濟學
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講題	利益團體與公共政策
講題簡介	【講題重要性】 不論國內或國外，愈來愈多的資料顯示，特殊利益團體對公共政策的影響力與日俱增。本講題旨在介紹利益團體的存在，如何改變公共政策的面貌。若干看似與傳統觀點衝突的現象，可藉由利益團體模型得到合理的解釋。此外，如果利益團體的存在是一種「必要之惡」，此情況下最適政策的訂定，亦為重要的議題。 【內容介紹】 (1) 利益團體真的會影響政策嗎?—若干實證資料 (2) 利益團體模型 a)Stigler-Peltzman 模型 b)競租(rent-seeking)模型 c)Becker 模型 d)共同代理(common-agency)模型 (3) 模型應用 a)貿易政策 b)環境政策 c)租稅政策
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著作	賴育邦*, 2019.02, 'Environmental policy competition and heterogeneous capital endowments, ' Regional Science and Urban Economics, Vol.Volume 75, pp.107-119. Yu-Bong Lai*, 2018.12, 'The impacts of firms’ mobility on the environmental policy, ' Environmental Economics and Policy Studies, pp.1-21. Yu-Bong Lai*, 2018.09, 'Tax Havens, Income Shifting, and Redistributive Taxation, ' Journal: Journal of Public Economic Theory,. Yu-Bong Lai*, 2017.12, 'The Feasibility of The Double-Dividend Hypothesis in a Democratic Economy, ' Scandinavian Journal of Economics, Vol.120, No.1, pp.211-241. 鄭竹君;朱巡;Yu-Bong Lai*, 2015.12, 'A Political Economy of Tax Havens, ' International Tax and Public Finance, pp.01-20. Yu-Bong Lai*, 2015.08, 'Does tax competition reduce corruption?, ' Scottish Journal of Political Economy, pp.1-26. Yu-Bong Lai*, 2014.02, 'Asymmetric tax competition in the presence of lobbying, ' International Tax and Public Finance, Vol.0, No.0, pp.0. Yu-Bong Lai*, 2013.03, 'The superiority of environmental federalism in the presence of lobbying and prior tax distortions, ' Journal of Public Economic Theory, Vol.15, No.2, pp.343-363. C.C. Cheng;Yu-Bong Lai*, 2012.11, 'Does a stricter enforcement policy protect the environment? A political economy perspective, ' Resource and Energy Economics, Vol.34, No.4, pp.431-441. Yu-Bong Lai*, 2010.10, 'The political economy of capital market integration and tax competition, ' European Journal of Political Economy, Vol.26, No.3, pp.475-487. Yu-Bong Lai*, 2009.06, 'Is a Double Dividend Better than a Single Dividend?, ' Journal of Institutional and Theoretical Economics, Vol.165, No.2, pp.342-363. 賴育邦*, 2008.07, 'Auctions or Grandfathering: The Political Economy of Tradable Emission Permits, ' Public Choice, Vol.136, No.1-2, pp.181-200. Yu-Bong Lai*;C.-H Hu, 2008.05, 'Trade Agreements, Domestic Environmental Regulation, and Transboundary Pollution, ' Resource and Energy Economics, Vol.30, No.2, pp.209-228. Yu-Bong Lai*, 2007.10, 'The Political Economy Linkage between Trade Liberalization and Domestic Environmental Regulations, ' Public Choice, Vol.133, No.1-2, pp.57-72. Yu-Bong Lai*, 2007.03, 'The Optimal Distribution of Pollution Rights in the Presence of Political Distortions, ' Environmental and Resource Economics, Vol.36, No.3, pp.367-388. 賴育邦*, 2007, '跨國污染與國際環境協定, ' 經社法制論叢,

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榮譽獎項	政治大學研究優良獎(98，99 年度)

研習營-經濟學門- CGE 模型的基本原理與應用	
講題領域	政策評估
講員	楊浩彥
講題	CGE 模型的基本原理與應用
講題簡介	1. 可計算一般均衡模型的基本架構 2. 投入產出表與社會會計矩陣 3. 求解軟體的編寫與案例應用 可計算一般均衡模型(Computable General Equilibrium Model,以下簡稱 CGE 模型)是國內外常見的政策評估方法之一。一般而言, CGE 模型可以代表一個經濟社會的縮影,而該模型的原理則奠定在經濟學的一般均衡理論架構,其所分析的內涵著重在以市場為中心的各個經濟個體的行為(這包括消費者、生產者與政府等),並涵蓋經濟個體和各項資源配置與市場績效的相互關係。目前國內外學術單位與政府部門,利用 CGE 模型分析產業與總體政策有關的課題已有相當廣泛的討論與應用,在發展的歷程上亦相當久遠。從 60 年代利用 Leontief-type 分析法與 Klein-type 分析法,一直到晚近結合產業關聯與總體經濟的一般均衡架構,不論在學術研究或政府政策的研擬上,均扮演著重要的角色。有關的研究議題從早期對於全盤性的財政政策與貨幣政策的討論,到晚近針對個別政策的評估,如租稅、貿易、勞動、能源、環境、水資源、創新活動、所得分配等,CGE 模型分析法政策的提供上均有相當的著力點。 本課程首先會說明 CGE 模型的基本原理,接著介紹 CGE 模型所需的資料結構,其次討論各種求解軟體的編寫,最後以台灣本土化的資料為案例進行操作並對結果進行解讀。本課程希望聽眾能了解 CGE 模型應用於政策評估的完整過程,並期望達到自己動手做的目的。
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研習營-經濟學門-動態隨機一般均衡模型作為政策評估工具	
講題領域	政策評估
講員	何泰寬
講題	動態隨機一般均衡模型作為政策評估工具
講題簡介	【內容介紹】 本項課程的目的，是要介紹如何使用動態隨機一般均衡(DSGE)模型來進行政策評估。使用 DSGE 模型進行政策評估具有兩項優點：首先，DSGE 模型具有透明的政策傳遞機制；其次，DSGE 模型容許研究者進行量化而不僅是質化的分析。 課程分為四個部分。首先，是介紹如何求解線性化的 DSGE 模型。本項課程假設學員都已經熟悉動態模型的均衡條件推導。課程將從既定的線性化模型出發，介紹如何撰寫 MATLAB 程式，計算模型的衝擊反應函數與變數隨機模擬。其次，為了產生不對稱性的衝擊與增強衝擊效果，晚近的文獻在 DSGE 模型中引入 Occasional Binding Constraints，例如抵押限制條件與零利率下界。本項課程將會說明如何使用 Guerrieri and Iacoviello (2015)提出的 Piecewise Linear Method 來求解模型。這是文獻上目前相對便利而且穩健的求解方法。第三，課程將以兩篇文章，來說明如何使用 DSGE 模型，進行政策評估。DSGE 模型的政策評估，是基於反事實模擬，也就是在研究者設想的情境之下，模型的內生變數如何跟著改變。課程的兩個案例分別是 1930s 年代大蕭條對於中國的影響，以及資本流入對德國威瑪共和時期經濟的衝擊。文獻上也通常使用結構向量自我回歸(SVAR)模型進行政策評估。課程第四部份，也將簡要介紹該項方法。 【課程安排】 一、求解線性化的 DSGE 模型。 二、求解含有 Occasional Binding Constraints 下的 DSGE 模型。 三、基於 DSGE 的政策評估：兩個案例。 四、基於 SVAR 的政策評估。
建議閱讀文獻	(一) DeJong, David N. and Chetan Dave (2011), Structural Macroeconometrics, Second Edition, Princeton University Press. (二) Guerrieri, Luca and Matteo Iacoviello (2015), "OccBin: A toolkit for solving dynamic models with occasionally binding constraints easily," Journal of Monetary Economics, 70, pp. 22-38. Guerrieri, Luca and Matteo Iacoviello (2017), "Collateral constraints and macroeconomic asymmetries," Journal of Monetary Economics, 90, pp. 28-49. Mendoza, Enrique G. (2010), "Sudden Stops, Financial Crises, and Leverage," American Economic Review, 100 (5), pp. 1941-1966.

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Lutz, Kilian and Lütkepohl, Helmut (2017), Structural Vector Autoregressive Analysis, Cambridge University Press.

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著作	Von Hagen, Jürgen and Tai-kuang Ho (2007), "Money Market Pressure and the Determinants of Banking Crises," Journal of Money, Credit and Banking, 39 (5), pp. 1037-1066. Ho, Tai-kuang and Kuo-chun Yeh (2010), "Measuring monetary policy in a small open economy with managed exchange rates: The case of Taiwan," Southern Economic Journal, 76 (3), pp. 811-826. Ho, Tai-kuang (2011), "Accounting for Taiwan's first Post-war Negative Economic Growth," Taiwan Economic Forecast and Policy, 41 (2), pp. 1-49. Ho, Tai-kuang and Cheng-chung Lai (2013), "Silver Fetters? The Rise and Fall of Chinese Price Level 1928-34" Explorations in Economic History, 50, pp. 446-462. Ho, Tai-kuang and Kuo-chun Yeh (2014), "The Post-Asian Crisis Drop in Investment: The Cases of Indonesia, Korea, Malaysia and Thailand," Contemporary Economic Policy, 32 (3), pp. 618-638. Ho, Tai-kuang (2014), "Dilemma of the Silver Standard Economies: The Case of China," Southern Economic Journal, October, 81 (2), pp. 519-534. Ho, Tai-kuang (2015), "Looking for a Needle in a Haystack: Revisiting the Cross-Country Causes of the 2008-09 Crisis by Bayesian Model Averaging," Economica, 82, pp. 813-840. Ho, Tai-kuang and Cheng-chung Lai (2016), "A silver lifeboat, not silver fetters: Why and how the silver standard insulated China from the 1929 Great Depression," Journal of Applied Econometrics, 31, pp. 403-419. Ho, Tai-kuang (2016), "Money doctors and their reform proposals for China reconsidered, 1903–29," Oxford Economic Papers, 68 (4), pp. 1039-1061. Ho, Tai-kuang and Chien-Jung Ting (2018), "Exchange Rates and Economic Recovery in the 1930s: An Extension to Asia," Australian Economic History Review, 58 (2), pp. 134-152. Ho, Tai-kuang, Ya-chi Lin, and Kuo-chun Yeh (2019), "Alternative Monetary Policies under Keynesian Animal Spirits," Macroeconomic Dynamics.

研習營-經濟學門- Regression Discontinuity/Kink Design 在政策研究與經濟學上的應用	
講題領域	政策評估
講員	楊子霆
講題	Regression Discontinuity/Kink Design 在政策研究與經濟學上的應用
講題簡介	本課程介紹 Regression Discontinuity/Kink Design 的基本概念，以及這套準實驗的方法在政策研究與經濟學上的應用，最後，我們也會讓學員用統計軟體(R 與 STATA)實際執行課堂上所學的方法。預計課程安排如下: 1. Regression Discontinuity Design 的理論與應用 ✓ Potential outcome 概念介紹 ✓ Regression Discontinuity Design 的基本概念與假設 ✓ Local Average Treatment Effect (LATE) 的概念介紹 ✓ 如何進行 Regression Discontinuity Design 估計 ✓ Sharp Regression Discontinuity Design ✓ Fuzzy Regression Discontinuity Design ✓ 執行 Regression Discontinuity Design 的注意事項 ✓ 經濟學上的應用 ✓ 統計軟體(R 與 STATA)實際操作 2. Regression Kink Design 的理論與應用 ✓ Potential outcome 概念介紹 ✓ Regression Kink Design 的基本概念與假設 ✓ Local Average Treatment Effect (LATE) 的概念介紹 ✓ 如何進行 Regression Kink Design 估計 ✓ Sharp Regression Kink Design ✓ Fuzzy Regression Kink Design ✓ 執行 Regression Kink Design 的注意事項 ✓ 經濟學上的應用 統計軟體(R 與 STATA)實際操作
建議閱讀文獻	Angrist, Joshua D., Guido W. Imbens, and Donald B. Rubin. (1996), “Identification of Causal Effects Using Instrumental Variables.” Journal of the American Statistical Association 91: 444–55. Angrist, Joshua D., and J¨orn-Steffen Pischke. (2008), Mostly Harmless Econometrics: An Empiricist’s Companion. Princeton, NJ: Princeton University Press. David S. Lee and Thomas Lemieux (2010), “Regression Discontinuity Designs in Economics“, Journal of Economic Literature Christopher Skovron and Rocio Titiunik (2015), “A Practical Guide to Regression Discontinuity Designs in Political Science“, Working Paper David S. Lee and Thomas Lemieux (2014), “Regression Discontinuity Designs in Social Sciences“, The SAGE Handbook of Regression Analysis and Causal Inference

	Mark Hoekstra (2009), “The Effect of Attending the Flagship State University on Earnings: A Discontinuity-Based Approach“, Review of Economics and Statistics Christopher Carpenter and Carlos Dobkin (2009), “The Effect of Alcohol Consumption on Mortality: Regression Discontinuity Evidence from the Minimum Drinking Age" ,AEJ:Applied Economics David S. Lee, Enrico Moretti, and Matthew J. Butler (2004), “Do Voters Affect or Elect Policies Evidence from the U.S. House.S. House“, QJE Olivier Marie (2009), “The Best Ones Come Out First! Early Release from Prison and Recidivism: A Regression Discontinuity Approach“, Working Paper

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著作	Family Labor Supply and the Timing of Cash Transfers: Evidence from the Earned Income Tax Credit (Online Appendix), Journal of Human Resources, 53(2) 445-473, 2018 The Effect of Workplace Pensions on Household Saving: Evidence from a Natural Experiment in Taiwan, Journal of Risk and Insurance, forthcoming, 2019 經濟成長、薪資停滯?初探台灣實質薪資與勞動生產力成長脫勾之成因, (與林依伶), 經濟論文, 46(2) 266-322, 2018 誰付退休金?—勞退新制對私部門勞工薪資的影響 (與駱明慶), 經濟論文, 37(3), 339–368, 2009

研習營-經濟學門-差異中的差異與合成控制法簡介	
講題領域	政策評估
講員	黃柏鈞
講題	差異中的差異與合成控制法簡介
講題簡介	如何認定變數間因果關係一直是經濟學中的重要議題。本次演講，我將簡介過去十數年經濟學實證文獻中常用來認定因果關係的方法：差異中的差異與合成控制法。演講內容包括其計量模型與假設、估計方法與經濟學上的應用。
建議閱讀文獻	**I: Introduction to Program Evaluation** Abadie, A. and Matias D. Cattaneo (2018), "Econometric Methods for Program Evaluation", Annual Review of Economics 10, 465-503 Susan Athey and Guido W. Imbens (2017), "The State of Applied Econometrics: Causality and Policy Evaluation", Journal of Economic Perspectives 31(2): 3-32 Imbens G., J. Wooldridge (2009). Recent developments in the econometrics of program evaluation. Journal of Economic Literature 47(1), 5–86 **II: Difference-in-Differences** Abadie, A. (2005), "Semiparametric Difference-in-Differences Estimators," Review of Economic Studies 72, 1-19 Abadie, A., S. Athey, G. Imbens., J. Wooldridge (2017) Sampling-based vs. design-based uncertainty in regression analysis. https://arxiv.org/abs/1706.01778 Abadie, A., S. Athey, G. Imbens, and J. M. Wooldridge (2017). When should you adjust standard errors for clustering? https://arxiv.org/abs/1710.02926. Athey, S. and G.W. Imbens (2006), "Identification and Inference in Nonlinear Difference-In-Differences Models," Econometrica 74, 431-497 Bertrand, M., E. Duflo, and S. Mullainathan (2004), "How Much Should We Trust Differences-in-Differences Estimates?" Quarterly Journal of Economics 119, 249-275 Meyer, B.D., W.K. Viscusi, and D.L. Durbin (1995), "Workers' Compensation and Injury Duration: Evidence from a Natural Experiment," American Economic Review 85, 322-340 Patrick A. Puhani (2012), The treatment effect, the cross difference, and the interaction term in nonlinear "difference-in-differences" models, Economic Letters 115(1), 85-87 Donald, S.G. and K. Lang (2001), "Inference with Difference-in-

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研習營-經濟學門-地理資訊與文字資料在政策研究與經濟學上的應用	
講題領域	政策評估
講員	楊子霆
講題	地理資訊與文字資料在政策研究與經濟學上的應用
講題簡介	近年來，經濟學開始使用非結構化資料(unstructured data)進行實證研究，其中地理資料與文字資料是相當重要的資料來源，本研習營課程將會以地理資料為主軸，首先，我們將介紹如何處理地理資料，接著討論這類資料在政策研究與經濟學上的應用，特別是與因果推論方法的結合。最後，我們將介紹如何使用統計軟體(R 與 STATA)處理地理資料並進行相關實證分析。課程的第二部分也會簡介文字資料的處理與其在政策研究與經濟學上的應用。
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著作	Family Labor Supply and the Timing of Cash Transfers: Evidence from the Earned Income Tax Credit (Online Appendix), Journal of Human Resources, 53(2) 445-473, 2018 The Effect of Workplace Pensions on Household Saving: Evidence from a Natural Experiment in Taiwan, Journal of Risk and Insurance, forthcoming, 2019 經濟成長、薪資停滯?初探台灣實質薪資與勞動生產力成長脫勾之成因, (與林依伶), 經濟論文, 46(2) 266-322, 2018 誰付退休金?—勞退新制對私部門勞工薪資的影響 (與駱明慶), 經濟論文, 37(3), 339–368, 2009

研習營-經濟學門-經濟成長、生產力:資源錯置與產業政策研究	
講題領域	產業經濟
講員	李文傑
講題	經濟成長、生產力:資源錯置與產業政策研究
講題簡介	資源錯置在產業政策成效與生產力差異研究中的應用: 1.資源錯置、產業政策與生產力 2.資源錯置與專利價值 3.資源錯置與人才招募 Hsieh and Klenow (2009) 建構了一個能夠衡量不同國家生產力差異的模型。一般而言資源應是平等分配的，一旦由資源錯置導致浪費時，伴隨而至的通常是低效率的產出。本講題將探討如何在傳統 TFP（實質生產力）的基礎上拓展 TFPR（效益生產力）的概念，透過比較各廠商 TFPR 與平均狀態 TFPR 的偏離程度來分析資源錯置程度，並且進而得出各類型的產業政策，如限制市場進入或是研發補貼如何造成生產性資源的錯配情形以及產業生產力損失的問題。
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著作	王平;李文傑*, 2016.09, '台灣經濟發展的過去、現在與未來,'紀念劉大中先生學術演講集 (第四冊), 財團法人劉大中先生教育文化紀念基金會, pp.1-32. 王平*;李文傑*, 2012.03, '後 ECFA 時代台灣經濟發展政策,' 後 ECFA 時代台灣經濟發展政策, 李誠/編著 Yen-Po Chen; Ting-Wei Lai; Wen-Chieh Lee*; Hao-Chung Li, 2017.11, 'Trade Barrier and Misallocations: The Case of the Photovoltaic Manufacturing Industry in China, ' International Review of Economics and Finance, Vol.52, pp.352-367. Hao-Chung Li*; Wen-Chieh Lee; Bo-Ting Ko, 2017.06, 'What determines misallocation in innovation? A study of regional innovation in China, ' Journal of Macroeconomics, Vol.52, pp.221-237. Wen-Chieh Lee; Shinn-Shyr Wang*, 2017.06, 'Misallocations and Policy Constraints on Mergers in the Modern Manufacturing Sector, ' Journal of Macroeconomics, Vol.52, pp.268-286. 溫偉任;李文傑*;歐宜芬, 2016.12, '垂直整合廠商是否促成下游競爭廠商的聯合行為,' 經濟論文, Vol.44, No.4, pp.487-535. 李浩仲*;李文傑;連賢明, 2016.06, '多「錢」入學？從政大學生組成看多元入學,' 經濟論文, Vol.44, No.2, pp.207-250.
榮譽獎項	華盛頓聖路易大學 John Stuart Mill 獎學金 華盛頓聖路易大學競爭性暑期研究基金 華盛頓聖路易大學學位論文獎學金 臺灣教育部公費留學獎學金

研習營-經濟學門-網路經濟學	
講題領域	產業經濟
講員	陳恭平
講題	網路經濟學
講題簡介	【講題重要性】 這個課程將介紹網路經濟學的基礎理論，包括網路外部性及 均衡、消費者產品選擇、廠商相容及標準的選擇，以及其衍生的 效率性質。最後，將介紹重要性與日俱增的網路拍賣。 【內容介紹】 **Lecture 1: Basic Concepts** Network externalities. Competition with increasing returns. Cases: QWERTY, Beta vs VHS. **Lecture 2: Platform and Two-Sides Markets** Two-sided market. Platform pricing **Lecture 3: Online Auctions and Transactions** Introduction and certain stylized facts. Theoretic models of online auctions.
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著作	Kong-Pin Chen, Hung-pin Lai, Ya-Ting Yu, 2018, “The Seller’s Listing Strategy in Online Auctions: Evidence from eBay”, International Journal of Industrial Organization, 56, 107-144. 黃國昌、林常青、陳恭平 ，2017，〈台灣人民對法院的信任支持及觀感：以對法官判決之公正性及對法院表現的滿意度為中心〉，《臺灣政治學刊》，第 21 卷第 1 期，頁 51-112。 Kong-Pin Chen, Szu-Hsien Ho, Chi-Hsiang Liu, Chien-Ming Wang, 2017, “The Optimal Listing Strategies in Online Auctions”, International Economic Review, 58(2), 421-437. 林常青、黃國昌、陳恭平、游雅婷 ，2016，〈2011 年台灣人民法律紛爭面訪：設計及基本統計〉，《調查研究》，第 36 期，頁 87-123。 張永健、陳恭平、劉育昇，2016，〈無權占有他人土地與相當於租金之不當得利─實證研究與政策建議〉，《政大法學評論》，第 144 期，頁 81-153。 林常青、陳恭平、黃國昌、賴宏彬，2015，〈臺灣人民常見的法律紛爭類型及解決：城鄉差異、人口及社經特性〉，《臺灣社會學刊》，第 58 期，頁 157-190。 Kong-Pin Chen, Tsung-Sheng Tsai, 2015, “Judicial Torture as a Screening Device”, B.E. Journal of Theoretical Economics, 15(2), 277-312. Kong-Pin Chen, Kuo-Chang Huang and Chang-Ching Lin, 2015, “Party Capability versus Court Preference: Why do the “Haves” Come Out Ahead?- An Empirical Lesson from the Taiwan Supreme Court”, Journal of Law, Economics, and Organization, 31(1), 93-126. Kuo-Chang Huang, Chang-Ching Lin, Kong-Pin Chen, 2014, “Do Rich and Poor Behave Similarly in Seeking Legal Advice? Lessons from Taiwan in Comparative Perspective”, Law and Society Review, 48(1), 193-223. Kong Pin Chen, Hung-pin Lai, Ya-Ting Yu, 2014, “Do Consumers Discount Parallel Imports?”, Asia-Pacific Journal of Accounting and Economics, 21(1), 58-77. Jong- Rong Chen, Kong-Pin Chen, Chien-Fu Chou and Ching-I Huang, 2013, “A Dynamic Model of Auctions with Buy-It-Now: Theory and Evidence”, Journal of Industrial Economics, 61(2), 393-429. Kong-Pin Chen, Yen-Chi Huang and Chi-Hsiang Liu, 2013, “Market Competition and the Internal Structure of Firms”, Taiwan Economic Review, 41(1), 49-75. Kong-Pin Chen, Yen-Chi Huang, 2012, “A Search-Matching Model of Buyer-Seller Platforms”, CESifo Economic Studies, 58(4), 626-649. 林常青、黃國昌、陳恭平，2012，〈法學方法與實證研究（五）：

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	Open Primaries", Public Choice, 112, 1-30. Chinn-Ping Fan, Kong-Pin Chen, Kamhon Kan, 1998, "The Design of Payment System for Physicians under Global Budget-An Experimental Study ", Journal of Economic Behavior and Organization, 34, 295-311. 古慧雯, 陳恭平，1998，〈集中式拍賣與分散式拍賣〉，《經濟論文叢刊》，第 26 卷第 2 期，頁 193-208。 Kong-Pin Chen, Hung-Ken Chien, C. Y. Cyrus Chu , 1997, "Sequential vs. Unitary Trials with Asymmetric Information", Journal of Legal Studies, 26, 239-258. 陳恭平, 王智賢，1997，〈保障善意第三者的重複賽局均衡〉，《經濟論文叢刊》，25, 293-307。 Kong-Pin Chen, 1996, "Compensation Principle in Repeated Games", Games and Economic Behavior, 16, 1-21. Kong-Pin Chen, 1995, "Renegotiation-Proof Equilibrium Under Imperfect Monitoring", Journal of Economic Theory, 65, 600-610. 陳恭平, 朱敬一 ，1994，〈台灣的資產炒作〉，《人文及社會科學集刊》，6, 79-98。
榮譽獎項	教育部學術獎 國科會傑出獎 吳大猷紀念獎 中研院年輕學者著作獎

研習營-經濟學門- Structural Estimation of Differentiated-Product Industries	
講題領域	產業經濟
講員	黃景沂
講題	Structural Estimation of Differentiated-Product Industries
講題簡介	【講題重要性】 The goal of this lecture is to introduce the BLP (Berry, Levinsohn, and Pakes) framework to structurally estimate data from industries with horizontal differentiation. Berry, Levinsohn, and Pakes proposed an empirical model in their 1995 *Econometrica* paper to analyze differentiated industries. The method considers demand from a consumer's discrete choice over the set of all products in the market. The market demand is then aggregated over all consumers. By matching the observed market shares with the model, we can recover a consumer's utility function over product characteristics. In addition, each firm is assumed to maximize its profit, taking others' action into account. The observed equilibrium should satisfy the corresponding first order conditions. Based on the estimated structural model, we can compute social welfare under various scenarios and perform counterfactual simulations to evaluate different policies. In the past decade, there have been many empirical studies applied and extended the basic BLP framework to study important IO issues, such as price discrimination, two-sided markets, spatial competition, and environmental regulation. This lecture will introduce the main concepts on the BLP framework and also cover some empirical studies using this framework. 【內容介紹】 1. The background of the BLP framework 2. The basic version of the BLP framework 3. Extensions of the BLP framework 4. Empirical applications using the BLP framework
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研習營-經濟學門-廠商創新行為的分析	
講題領域	產業經濟
講員	陳忠榮 楊志海
講題	廠商創新行為的分析
講題簡介	【講題重要性】 創新的重要性不只顯現在廠商之間的競爭行為，也體現在產 業的發展過程之中，更與國家的長期經濟成長有極其密切的關係。經濟學界對於創新的相關研究可追溯至 Solow (1957), Griliches (1957), Nelson (1956), Mansfield (1961), Arrow(1962) 、Scherer(1965)等。晚近的相關研究更將創新活動與整個世界的經濟活動相互結合，使得創新的分析更為重要，創新活動的相關議題因而變得相當廣泛。本講題將注重於研發與專利的相關實證議題，研發為創新行為的主要投入，而專利則為其主要的產出。相關的議題包括:研發投資的決定因素以及其與生產力的關係、知識外溢的衡量與其途徑的評估、技術引進途徑以 及其影響、R&D Internationalization、R&D Resource Allocation、智慧財產權的保護程度及其影響，尤其是專利與 TRIPs 的關係; 以及專利引用、專利更新、專利訴訟、the role of Non-Practicing Entities、Patent Network 等。
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<table>
<tr><th colspan="2">研習營-經濟學門-醫療與長照實證研究</th></tr>
<tr><td>講題領域</td><td>健康經濟</td></tr>
<tr><td>講員</td><td>韓幸紋</td></tr>
<tr><td>講題</td><td>醫療與長照實證研究</td></tr>
<tr><td>講題簡介</td><td>講題重要性
1993 年台灣老年人口（65 歲以上）比率跨越 7%的人口高齡化國家（aging nation）門檻， 2018 年已達到 14%進入高齡社會。人口結構變化影響層面很廣，例如經濟發展、國家財政、社會保險財務等等，政府亦積極研擬各項政策予以因應，但各項政策應透過實證分析了解其效果，而實證分析須有資料的支持，本次課程將以醫療及長照相關議題為討論範圍，介紹可使用的公務資料。
內容介紹
● 醫療議題
2017 年 9 月因長庚醫院爆發某婦產科醫師未進行相關檢查(例如驗孕)的情況下，進行子宮內視鏡檢查導致受檢婦女流產，遭質疑有濫用侵入性子宮鏡檢查之嫌。之後中央健康保險署亦公布林口長庚因執行子宮鏡檢查執行率偏高，占全國醫學中心總量 47.4%。此爭議事件不僅使得財團法人醫院被列入查核重點，更引發對於財團法人醫院免稅標準是否過寬之爭議，更讓台灣各界驚覺醫院、私校竟然變成企業財團節稅的控股機構。本次課程將介紹進行醫院相關研究時可使用的資料，例如全民健康保險保險人資訊整合應用服務中心的健保資料檔、醫院財報、醫院稅報資料，並以部分負擔政策分析為例，介紹以下內容：
1. 制度及財報簡介；
2. 申請方式介紹；
3. 重要變數說明；
4. 後續可研究議題。
● 長照議題
為配合長照 2.0 相關政策之推動，加速長照服務資訊化，衛福部進行照顧服務管理資訊平台系統之改版，並配合政策規劃於 2017 年 4 月正式上線，提供各縣市照管中心、縣市政府及服務提供單位執行長照相關業務時使用。從照管中心接到申請案、開案評估、失能等級、初評照顧計畫、計畫審核到照會程序，照會居服單位是否提供服務、單位接案後擬定照顧計畫、提供服務完成服務紀錄、到縣市承辦進行核銷作業。故此系統資料檔可作為研究長照供給面及需求面分析之用。
本次課程將介紹長照 2.0 系統資料檔，包含：
1. 長照 2.0 制度簡介；
2. 系統資料檔申請方式；
3. 資料檔內重要變數；
4. 後續可研究議題。</td></tr>
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研習營-經濟學門-健康與公共經濟的實證研究: 前沿議題介紹	
講題領域	健康經濟
講員	楊子霆
講題簡介	健康與公共經濟的實證研究: 前沿議題介紹
講題	近期健康與公共經濟學的實證研究，強調理論與實證估計的結合，自從 Chetty (2009)開始倡導 Sufficient Statistics 的概念，經濟學界便開始利用簡單的經濟模型導出能在實證資料中，透過準實驗方法估計出來的參數(即能進行福利分析的 sufficient statistics)，並用這個能被準確估計出來的參數進行福利分析。本研習營課程便是簡介這套概念在健康與公共經濟學上的應用，特別是與 bunching method 或是其它準實驗方法的結合。最後，我們也會提到 Sufficient Statistics 概念在行為健康/公共經濟學(behavioral health/public economics)的應用。課程大致分為以下三個部分: 1. Sufficient Statistics 概念與實證研究 2. Bunching method 和其他準實驗方法與 Sufficient Statistics 概念的結合 3. Sufficient Statistics 概念在行為健康/公共經濟學的應用
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研習營-經濟學門-如何使用健保資料進行醫師相關研究	
講題領域	健康經濟
講員	連賢明
講題	如何使用健保資料進行醫師相關研究
講題簡介	【講題重要性】 在醫療經濟領域中，醫師行為長久來一直為研究重心。基於醫病中資訊不對稱情形，醫師如何在醫療行為兼顧病人和自身利益，如何在執業中累積經驗，如何學習新發展醫療技術，這些行為均影響醫療品質和資源分配，也衍伸出一連串相關議題。 台灣自實施全民健保後，將累積給付資料轉成健保資料庫供研究使用。更重要的是，這資料庫中提供一致性的醫師代碼，可提供檢定許多醫師行為假說。本講題首先介紹如何將全民健保資料庫運用到醫師行為實證分析，其次則討論三項醫師行為假說。第一，醫師是否會因為自身利益創造誘發性需求？第二，醫師經驗對醫療品質有幫助嗎？第三，醫師如何學習？是否存在同儕效果？。 【內容介紹】 第一，供給誘發性需求(supplier induced demand) 第二，經驗和品質關係（volume-outcome relationship） 第三，醫師間同儕效果等（peer effect）。
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榮譽獎項	莊逸洲兩岸醫管論文獎金獎 第七屆王金茂醫管論文獎

研習營-經濟學門-實證產業組織於醫療產業之應用：以台灣健保資料庫為例	
講題領域	健康經濟
講員	唐孟祺
講題	實證產業組織於醫療產業之應用：以台灣健保資料庫為例
講題簡介	實證產業組織(Empirical Industrial Organization)的研究強調與經濟理論緊密結合的結構型估計方法(structural estimation)，讓實證結果能應用反事實分析(counterfactual analysis)估計福利效果。近年來該方法大量應用在各產業的實證研究，包括醫療產業。不過在醫療產業相關的研究多使用美國的醫療保險資料為主，較少有使用其它國家資料的研究。本講題以台灣的健保資料為對象，介紹實證產業組織的研究方法在台灣醫療產業及健保制度的應用。 課程共分為四部份：第一部份介紹目前醫療產業實證研究相關文獻，並介紹基本的結構型估計方法。第二部份介紹結構型估計方法在台灣健保制度及資料的應用，並以代理問題(agency problem)與總額預算兩個主題為例。第三部份介紹台灣健保資料庫及使用該資料庫進行醫療產業分析的相關文獻，並使用 STATA 演示如何使用健保資料進行台灣健保資料庫的研究。第四部份為所有參與學人的討論與互動。 預期在課程結束後，學人能對實證產業組織在醫療產業實證研究的文獻與方法有初步掌握，並對台灣健保制度及資料內容建立基本的了解，具備進一步申請使用健保資料來進行相關研究的能力。 **課程大綱** 1。實證產業組織(Empirical IO)與醫療產業實證研究(2 小時) (1) 醫療產業實證研究的相關文獻介紹(1 小時) (2) 結構型估計法(structural estimation)介紹 (1 小時) 2。應用實證產業組織於台灣健保制度與醫療產業之分析：以代理問題與總額預算為例(2 小時) (1) 代理問題 (1 小時) (2) 總額預算 (1 小時) 3。應用實證產業組織於台灣健保資料(2 小時) (1) 全民健保資料庫及醫療產業相關研究介紹(1 小時) (2) 應用實例(1 小時)
建議閱讀文獻	1. 實證產業組織(Empirical IO)與醫療產業實證研究 (1) 醫療產業實證研究的相關文獻介紹 **Asymmetric Information**

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Einav, L., and A. Finkelstein, 2011, "Selection in Insurance Markets: Theory and Empirics in Pictures," *Journal of Economics Perspectives*, 25(1), 115-138.

Structural Estimation

Gaynor M., and R. J. Town, 2012 "Competition in Health Care Markets," *Handbook of Health Economics*, Vol. 2, T. McGuire, M.V. Pauly, and P. Pita Barros, Editors, Amsterdam: Elsevier North-Holland.

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(2) 結構型估計法(structural estimation)介紹

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2. 應用實證產業組織於台灣健保制度與醫療產業：以代理問題與總額預算為例

(1) 代理問題

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Benstetter, F., and A. Wambach, 2006, "The Treadmill Effect in a

Fixed Budget System," *Journal of Health Economics*, 25(1), 146-69.

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Lai, H. -p. and M. -C. Tang (2018), Hospital Efficiency under Global Budgeting: Evidence from Taiwan, *Empirical Economics*, 55(3), 937-963.

3. 應用實證產業組織於台灣健保資料

(1) 全民健保資料庫及台灣醫療產業研究相關文獻介紹

連賢明，2008，"如何使用健保資料進行經濟研究" 經濟論文叢刊 36:1, 115-143.

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(2) 應用實例(1 小時)

Tang, M. -C. and Y. –N. Wu, Medical Providers as Double Agents in a Universal Health Care System: Evidence from Generic Pharmaceutical Adoption in Taiwan, *Empirical Economics*, forthcoming.

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著作	"Legal Environments, Venture Capital, and the Total Factor Productivity Growth of Tai- wanese Industry," Contemporary Economic Policy, 26(3), 468-81, July 2008.(with Yih-Luan Chyi) "The Multitude of Alehouses: The Effects of Alcohol Availability on Highway Safety," The B.E. Journal of Economic Analysis & Policy, 13(2), 1023-50, October 2013. "The Effect of an Agent's Experience on National Football League Contract Structure," Economics Letters, 121, 275-81, November 2013. (with Mike Conlin and Joe Orsini) "Contract Length, Expected Surplus, and Specific Investments: Empirical Evidence from the National Football League," Journal of Sports Economics, 16(3), 295-311, April 2015. "Household Preferences and Joint Decisions on Employer-Provided Health Insurance Access," The Manchester School, 84(6), 723–48, December 2016 (with Ji-Liang Shiu) "A Capable Wife: Couple's Joint Decisions on Labor Supply and Family Chores," Empirical Economics, forthcoming. (with Ji-Liang Shiu) "Total Factor Productivity or Labor Productivity? Firm Heterogeneity and Location Choice of Multinationals," International Review of Economics and Finance, 49, 499–514, May 2017. "Hospital Efficiency under Global Budgeting: Evidence from Taiwan," Empirical Economics, forthcoming. (with Hung-Pin Lai)

研習營-經濟學門-投資組合實證研究-最近之趨勢	
講題領域	計量經濟
講員	顏佑銘
講題	投資組合實證研究-最近之趨勢
講題簡介	**【講題重要性】** 經濟學界所使用的財務模型，都是從理性的個人或機構，如何建構一個最適投資組合的角度出發，加入一些外生及內生條件，再到整體市場的均衡。因此，投資組合的建構可說是財務經濟學研究中最基本的議題。而在現實世界中，人們的財務決策很大一部分都是跟建構一個合理的投資組合有關，像是公司或是個人投資風險之控管及退休金的儲蓄等。 Markowitz (1952)所提出的最小變異數投資組合可說是現代投資組合理論(甚至是現代財務理論)的起源。但投資組合理論經過超過半個世紀的發展，極小化投資組合變異數這個目標，早已不再是唯一的標竿；取而代之的是採用更為多樣，適合不同投資人的風險門檻。近年來高維投資組合最佳化(high dimensional portfolio optimization)技術的發展，也讓投資人在數百種，甚至數千種資產中建構最適投資組合這項工作，不再是一件困難的事。了解目前投資組合實證研究的發展，將有助於我們了解這些最新工具的實際表現，進而知道如何使用他們，來建構最佳的投資組合，達成財務目標。 **【內容介紹】** 課程首先會簡短複習財務經濟學中的投資組合理論。之後會介紹建構投資組合所必要使用之參數的估計方法，其中一些跟最近的高維統計(high dimensional statistics)及高頻資料(high frequency data)的發展的技術有關。之後課程會著重在介紹建構最適投資組合方法的新發展，像是使用不同的規範懲罰函數來對投資組合權重做限制，還有使用不同的風險門檻來建構投資組合。
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Zou, H. and T. Hastie (2005): "Regularization and variable selection via the elastic net," Journal of the Royal Statistical Society: Series B (Statistical Methodology), 67, 301–320.

顏佑銘	
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著作	Yu-Min Yen*, 2019.03, 'Forward-Looking Information on Growth and Uncertainty Implied by Derivative Securities: Evidence from an Emerging Market, ' International Review of Economics and Finance,.(SSCI)(*為通訊作者)(本論著未刊登但已被接受) Ray Yeutien Chou;Tso-Jung Yen;Yu-Min Yen*, 2017.09, 'Risk Evaluations with Robust Approximate Factor Models, ' Journal of Banking and Finance, Vol.82, pp.244-264.(SSCI)(*為通訊作者) Tso-Jung Yen*;Zong-Rong Lee;Yi-Hau Chen;Yu-Min Yen;Jing-Shiang Hwang, 2017.02, 'Estimating Links of a Network from Time to Event Data, ' Annals of Applied Statistics, Vol.11, No.3, pp.1429-1451.(SCI)(*為通訊作者) Oliver Linton;Yoon-Jae Whang;Yu-Min Yen*, 2016.09, 'A Nonparametric Test of a Strong Leverage Hypothesis, ' Journal of Econometrics, Vol.194, No.1, pp.153-186.(SSCI)(*為通訊作者) Yu-MinYen*, 2016.05, 'Sparse Weighted-Norm Minimum Variance Portfolios, ' Review of Finance, Vol.20, No.3, pp.1259-1287.(SSCI)(*為通訊作者) Tso-Jung Yen*;Yu-Min Yen, 2016.04, 'Structured Variable Selection via Prior-Induced Hierarchical Penalty Functions, ' Computational Statistics and Data Analysis, Vol.96, pp.87-103.(SCI)(*為通訊作者) Yu-Min Yen*;Tso-Jung Yen, 2014.08, 'Solving Norm Constrained Portfolio Optimization via Coordinate-Wise Descent Algorithms, ' Computational Statistics and Data Analysis, Vol.76, pp.737-759.(SCI)(*為通訊作者) Yu-Min Yen*, 2013.04, 'Testing Jumps via False Discovery Rate Control, ' PloS One, Vol.8, pp.e58365.(SCI)(*為通訊作者) Tso-Jung Yen;Yu-Min Yen*, 2010.09, 'Discussion on "Stability Selection" by Meinshausen and Buhlmann, ' Journal of the Royal Statistical Society: Series B, Vol.72, pp.413-417.(SCI)(*為通訊作者)
榮譽獎項	國立政治大學研究優良獎

研習營-經濟學門- Optimization Methods in High Dimension Statistics: An Introduction	
講題領域	計量經濟
講員	顏佐榕
講題	Optimization Methods in High Dimension Statistics: An Introduction
講題簡介	【講題重要性】 High dimensional data contain a large number of features and a relatively small number of observations. Because of this large p small n property, model estimation with high dimensional data may face a huge uncertainty in numerical computation. To overcome this difficulty, models for high dimensional data are often estimated by imposing constraints on their parameters. Such kind of approach is called the regularization approach, and optimization methods play a key role here. In this course we will teach optimization methods for estimating models for high dimensional data. We will first introduce an analytic framework and then develop efficient algorithms for solving optimization problems under that framework. We will discuss implementation issues relating to those algorithms and point out directions worth for further exploration. 【內容介紹】 1. Convex analysis, convex optimization and gradient methods. 2. Optimization method I: Alternating direction method of multipliers. 3. Optimization method II: Proximal gradient algorithm. 4. Optimization method III: Stochastic gradient and randomized algorithms.
建議閱讀文獻	S. Boyd, N. Parikh, E. Chu, B. Peleato, and J. Eckstein (2011). Distributed optimization and statistical learning via alternating direction method of multipliers. Foundations and Trends in Machine Learning 3, 1, 122. D. Bertsekas (2015). Convex Optimization Algorithms. Massachusetts: Athena Scientifc.

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學歷	PhD in Mathematics, Imperial College London
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著作	(T.-J. Yen)*, 2011, A majorization-minimization approach to variable selection using spike and slab priors, ANNALS OF STATISTICS, 39, 1748-1775, [SCI] (IF 2.78). Y.-M. Yen* and (T.-J. Yen), 2014, Solving norm constrained portfolio optimizations via coordinate-wise descent algorithm, COMPUTATIONAL STATISTICS & DATA ANALYSIS, 76, 737-759, [SCI] (IF 1.179). Ta-Chien Chan, (Tso-Jung Yen), Yang-Chih Fu, Jing-Shiang Hwang, 2015-06, ClickDiary: Online tracking of health behaviors and mood, JOURNAL OF MEDICAL INTERNET RESEARCH, 17(6):e147, [SCI] (IF 4.532). Tso-Jung Yen and Yu-Min Yen, 2016, Structured variable selection via prior-induced hierarchical penalty functions, COMPUTATIONAL STATISTICS & DATA ANALYSIS, 96, 87-103, [SCI] (IF 1.179). (Tso-Jung Yen), Yang-chih Fu, Jing-Shiang Hwang, 2016, Alters as species: predicting personal network size from contact diaries, SOCIAL NETWORKS, 45, 78-88, [SSCI] (IF 2.784). Chou, R. Y., (Yen, T.-J.) and Yen, Y.-M., 2016, Risk evaluations with robust approximate factor models, JOURNAL OF BANKING & FINANCE, , (IF 1.485). (Yen, T.-J.), Lee, Z.-R., Chen, Y.-H., Yen, Y.-M., and Hwang, J.-S., 2017, Estimating links of a network from time to event data, ANNALS OF APPLIED STATISTICS, , (IF 1.432).

<table>
<tr><th colspan="2">研習營-經濟學門-追蹤隨機邊界模型的介紹與應用</th></tr>
<tr><td>講題領域</td><td>計量經濟</td></tr>
<tr><td>講員</td><td>賴宏彬</td></tr>
<tr><td>講題</td><td>追蹤隨機邊界模型的介紹與應用</td></tr>
<tr><td>講題簡介</td><td>【講題重要性】
隨機邊界模型常應用於生產函數的估計，以及分析廠商生產過程中無效率問題的來源與相關因素。在過去幾年間，國內外利用追蹤資料(Panel Data)進行生產效率的實證分析有越來越多的趨勢；同時，追蹤隨機邊界模型(Panel Stochastic Frontier Model)近期也有許多新的發展。
本課程將介紹追蹤隨機邊界模型長期以來的演變與實證應用案例。課程首先將介紹基本的隨機邊界模型，接著將介紹最近幾年發展出的幾類追蹤隨機邊界模型，最後課程也將介紹幾個實證研究範例，說明追蹤隨機邊界模型於經濟實證分析上的應用。
【內容介紹: 】
(1) 隨機邊界模型簡介
(2) 傳統追蹤隨機邊界模型
(3) 追蹤隨機邊界模型-固定效果與隨機效果
(4) 追蹤隨機邊界模型-四因子模型
(5) 追蹤隨機邊界模型-效率動態調整
(6) 實證應用範例</td></tr>
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榮譽獎項	國立中正大學青年學者獎 國立中正大學傑出研究獎

研習營-經濟學門- Overview of Social Interactions Models	
講題領域	計量經濟
講員	謝志昇
講題	Overview of Social Interactions Models
講題簡介	【講題重要性】 Social interactions are defined as exchange of social behaviors between individuals or groups, which take place ubiquitously at home, school, neighbourhood, workplace, and even social media. Researchers have long been interested in exploring impacts of social interactions on educational, health, and labor outcomes. In particular, the results of social interaction studies can be used to analyse social multipliers, which have important implications for policy evaluation. However, researchers face various empirical challenges when studying social interactions, including the reflection problem (Manski, 1993), unobserved environment factors, and self-selection – almost all endogeneity issues mentioned in econometrics textbooks are present in social interaction models. The goal of this short course is to provide an overview of these endogeneity issues in social interaction models and discuss how to overcome them with different approaches. We will also discuss microfoundations behind the existing empirical models. 【內容介紹】 1. Linear models of Social Interactions a. Linear-in-means model and the reflection problem b. Unobserved group factors and self-selection c. Variance-based approach for identification d. Identification through group size variations e. Multiplier effects 2. Discrete choice models of Social Interactions a. Game-theoretical foundation and the issue of multiple equilibria b. Simulation-based estimation 3. Study social interactions in social networks a. Spatial autoregressive model b. Endogenous network formation

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著作	"Spatial Modeling Approach for Dynamic Network Formation and Interactions" coauthored with Xiaoyi Han and Stanley Ko (accepted by Journal of Business and Economic Statistics) (Supplementary Appendix) (program files for replication) Hsieh and van Kippersluis (2018) "Smoking Initiation: Peers and Personality," Quantitative Economics, 9, 825–863 . (Supplementary Appendix) (program files for replication) Hsieh and Lin (2017) "Gender and Racial Peer Effects with Endogenous Network Formation," Regional Science and Urban Economics, 67, 135-147. (program files for replication) Han, Hsieh, and Lee (2017) "Estimation and Model Selection of Higher-order Spatial Autoregressive Model: An Efficient Bayesian Approach," Regional Science and Urban Economics, 63, 97-120. Hsieh and Lee (2016) "A Social Interactions Model with Endogenous Friendship Formation and Selectivity," Journal of Applied Econometrics, 31, 301-319. (Supplementary Appendix) (MATLAB code for simulation) (Fortran code for simulation and empirical studies of the paper) Hsieh, Kovarik, and Logan (2014) "How central are clients in sexual networks created by commercial sex?" Scientific Reports 4, 7540 doi:10.1038/srep07540. (Supplementary Appendix) Hsieh and Chen (2010) "Generalized Moment Tests for AutoregressiveConditional duration Models," Journal of Financial Econometrics, 8, No.3, 345-391. Hsieh and Chen (2006) "On The Regime. Switching Behavior of Taiwan Real GNP Growth Rate," Academia Economic Papers, 34, 41-91. (In Chinese)

研習營-經濟學門- Model Selection and Model Averaging	
講題領域	計量經濟
講員	劉祝安
講題	Model Selection and Model Averaging
講題簡介	【講題重要性】 Empirical studies often face a situation whether additional regressors should be included in the baseline model. In finite samples, adding more regressors reduces the model bias but causes a large variance. Thus, it is important to take into account the model uncertainty when we conduct the empirical analysis. There are two popular methods to deal with model uncertainty: model selection and model averaging. In this lecture, we first introduce several commonly used model selection criteria and model averaging approaches. Second, we discuss the theoretical properties of these methods. Last, we give some empirical examples. 【內容介紹】 1. Kullback-Leibler Information Criterion 2. Model Selection and Model Averaging in Linear Regression Models 3. Focused Information Criterion and Plug-In Averaging Estimator 4. Empirical Examples
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著作	*Economics Letters* *Econometric Journal* *Econometric Theory* *Journal of Econometrics*

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<tr><th colspan="2">研習營-經濟學門-因果推論：理論與經濟學的應用</th></tr>
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<tr><td>講員</td><td>楊子霆</td></tr>
<tr><td>講題</td><td>因果推論：理論與經濟學的應用</td></tr>
<tr><td>講題簡介</td><td>本課程將介紹 4 個經濟學中常用的因果推論方法，分別是 Instrumental Variables, Difference-in-Differences, Synthetic Control method, Regression Discontinuity/Kink Design，每個方法皆會先提供相關理論的介紹，在搭配經濟學上的實際應用進行講解，最後，也會使用 R 與 STATA 的範例程式與資料，帶領學員實際操作上述因果推論的方法。每項主題預計花 3-4 小時進行，感興趣的教研單位可分梯次完成所有課程，詳細課程規劃如下:
1. Instrumental Variables (3-4 小時)
✓ Potential outcome 概念介紹
✓ Instrumental Variables 的基本概念
✓ Local Average Treatment Effect (LATE) 的概念介紹
✓ 如何進行 Instrumental Variables 估計
✓ 經濟學上的應用
✓ 統計軟體(R 與 STATA)實際操作
2. Difference-in-Differences (3-4 小時)
✓ Potential outcome 概念介紹
✓ Difference-in-Differences 的基本概念與假設
✓ Intention-to-Treat Effect (ITT) 的概念介紹
✓ 如何進行 Difference-in-Differences 估計
✓ 經濟學上的應用
✓ 統計軟體(R 與 STATA)實際操作
3. Synthetic Control method (3-4 小時)
✓ Potential outcome 概念介紹
✓ Synthetic Control method 的基本概念與假設
✓ Intention-to-Treat Effect (ITT) 的概念介紹
✓ 如何進行 Synthetic Control method 估計
✓ 經濟學上的應用
✓ 統計軟體(R 與 STATA)實際操作
4. Regression Discontinuity/Kink Design (3-4 小時)
✓ Potential outcome 概念介紹
✓ Regression Discontinuity/Kink Design 的基本概念與假設
✓ Local Average Treatment Effect (LATE) 的概念介紹
✓ 如何進行 Regression Discontinuity/Kink Design 估計
✓ 經濟學上的應用
✓ 統計軟體(R 與 STATA)實際操作</td></tr>
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研習營-經濟學門- Bayesian Econometrics	
講題領域	計量經濟
講員	張勝凱
講題	Bayesian Econometrics
講題簡介	【講題重要性】 In this lecture, we focus on Bayesian inference. In many empirical settings in economics, Bayesian methods appear statistically more appropriate and computationally more attractive than the classical methods typically used. Bayesian papers explicitly take up a large proportion of journal pages these days in both statistics and econometrics literature. Bayesian analysis provides a unified thinking of decision problems and their solution using data and other information. The goal of this lecture is to acquaint the participants in a serious way with this approach and its problem solving potential. In order to achieve this end, it has two objectives of this lecture. The first one is to provide a clear understanding of Bayesian analysis, grounded in the theory of inference and optimal decision making, which will enable the participants to confidently analyze real problems. The second is to equip the participants with state-of-the-art simulation methods that can be used to solve these problems.
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研習營-經濟學門- Panel Regression Analysis 追蹤迴歸分析	
講題領域	計量經濟
講員	林常青
講題	Panel Regression Analysis 追蹤迴歸分析
講題簡介	【講題重要性】 追蹤資料 (Panel Data) 分析近年來已大幅應用在經濟實證中。除了得利於該類資料的完整收集,Hsiao (2003,2006) 更列舉了幾個使用追蹤資料較單純使用時間序列資料 (time series data) 或橫斷面資料 (cross-sectional data) 的好處:(1) 能控制各別異質性; (2) 所包含的資訊更多,估計與推論也越準確; (3) 能刻畫個體間動態調整 (dynamics of adjustment); (4) 能捕捉更複雜的經濟行為; (5) 能避免資料因加總所造成的偏誤 (biases resulting from aggregation); (6) 能簡化運算與統計推論: 譬如在單根檢定上能有標準的極限分配、能控制衡量誤差 (measurement errors)、或簡化動態 Tobit 模型中的積分運算。 鑑於追蹤資料的普及與分析模型的大量發展,本課程除了介紹社會科學常用的差異中之差異法,以及靜態與動態線性追蹤資料模型外,也將深入淺出的介紹涵蓋近年經濟實證中普遍使用的追蹤資料單根與共整合檢定,以及橫斷面相依(cross-section dependence) 下追蹤資料的估計與檢定、參數同質性檢定 (test for parameter homogeneity) 與使用追蹤資料之受限應變數 (limited dependent variable) 迴歸模型。此課程也將介紹相關軟體的操作方式,並輔以若干實證研究為例,說明這些方法的應用。 【內容介紹】 (1) 自然實驗: 差異中之差異法. (2) 靜態與動態線性追蹤資料模型: a) 固定效果與隨機效果; b) 動態線性追蹤資料模型; c) Blundell and Bond’s system GMM estimator. (3) 追蹤資料單根與共整合檢定 (可彈性調整): a) Levin, Lin and Chu test; b) Im, Pesaran and Shin Test; c) Hadri’s residual based LM test; d) 假性迴歸相關議題 e) Kao test and Pedroni test. f) Panel ARDL. (4) 橫斷面相依下追蹤資料的估計與檢定 (可彈性調整): a) common factor specification; b) Bai and Ng test; c) Pesaran 的估計與檢定方法. (5) 參數同質性檢定 (可彈性調整): a) To pool or not to pool? b) Tests for parameter homogeneity. (6) 受限應變數追蹤資料迴歸模型 (可彈性調整): (a) 二元追蹤資料分析; (b) 其他受限應變數模型. (7) 實例討論

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研習營-經濟學門- Program Evaluation	
講題領域	計量經濟
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講題	Program Evaluation
講題簡介	【講題重要性】 Many empirical studies in economics and other social sciences are interested in the causal effects of programs or policies. The main problem studied in this literature is to evaluate the effect of the exposure of a set of units to a program, or treatment, on some outcome. In economic studies, usually the units are individuals, households, markets, firms, counties, states, or countries and the treatments can be job training program, educational programs, vouchers, laws and government policies. For example, we are interested in the effect of a job training program on individual's income, hourly wage or employment status. For another example, we are also interested in the effect of attending colleges on individual's future income. In the last two decades, much research has been done on the econometric and statistical analysis of such causal effects. This course is served as a review on recent development with a focus on the Rubin Causal Model. We review various treatment effects under the assumption that the treatment assignment is unconfounded which is also known as selection-on-observables and conditional independence. Then we extend the results to cases where the treatment assignment is endogenous, but a valid binary instrument is available for the treatment assignment. We also discuss several tests for the unconfoundedness assumption. Last, we summarize some of my research in this area. 【內容介紹】 1. Estimation and Inference under unconfoundedness. 2. Estimation and Inference when the treatment assignment is endogenous. 3. Tests for unconfoundedness assumption. 4. Summary on Yu-Chin Hsu's research.
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研習營-經濟學門- Model Specification Tests	
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講員	陳宜廷
講題	Model Specification Tests
講題簡介	【講題重要性】 完整的經濟實證研究通常應具有模型設定(Specification)、估計 (Estimation) 與檢驗 (Hypothesis testing) 這三項基本的計量分析步驟。但相對於模型設定與估計，模型檢驗在實證研究中經常未受到足夠的重視。實際上，不同的模型設定方式可能代表不同的經濟意義，亦可能使研究者得出不同的估計結果進而產生不同的詮釋。藉由模型設定檢驗，我們可以評估各種潛在模型設定方式的適切性，並從中選取或修正出較為合適的模型，再據以詮釋出同時具有經濟與計量意義的實證結果。 我們將在這個講題中介紹一般化的參數化設定檢驗(Parametric specification tests)的原則。這個原則係基於計量模型的設定正確性，經常可以表現成特定的動差條件 (Moment condition)，故可藉此推演出動差檢定 (Moment test)以判斷模型的適切性。這個原則的基本相法相當的簡單、容易瞭解。但在將其進一步延伸成實際的設定檢驗時，則會隨著不同的情況產生許多重要的計量議題。例如，如何使設定檢驗對特定的或一般的對立假設產生檢定力? 如何使得設定檢驗具有最適化的詮釋? 如何控制出設定檢驗大樣本正確的型一誤差機率? 如何使設定檢驗的大樣本正確性不受到模型估計方法的影響? 如何修正計量文獻中既有的設定檢驗使之適用於新的計量模型? 如何使低階動差檢驗不受到高階動差誤設的影響? 如何使高階動差檢定的方法適用於正確的低階動差設定方式? 與設計出易於實證研究中操作的動差檢定?。我們預計在個課程視情況討論其中一些議題。 【內容介紹】 在第一個部分，我們將回顧參數化設定檢驗的原則等基本觀念，並整理出設定檢驗的幾個重要的計量議題。 在第二個部分，我們將以實際的研究經驗說明文獻中相關的計量方法，與我們對這些議題所提出的方法及其在實際資料中的應用。
建議閱讀文獻	Newey, W. K. (1985), "Generalized method of moments specification testing," *Journal of Econometrics*, 29, 229-256. Newey, W. K. and D. McFadden (1994), "Large sample estimation and hypothesis testing," In *Handbook of Econometrics*, Vol. 4, Engle RF, McFadden D (Eds). Amsterdam: North-Holland. Tauchen, G. (1985), "Diagnostic testing and evaluation of maximum likelihood models," *Journal of Econometrics*, 30, 415-443. White, H. (1994), Estimation, Inference and Specification Analysis, Cambridge University Press, New York. Wooldridge, J. M. (1990), "A unified approach to robust, regression-

	based specification tests," *Econometric Theory*, 6, 17- 43. (課程的第二部份將提及較新的相關文獻)

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著作	Chen, Y.-T. and Tsay, R. S.(2019), "Time Evolution of Income Distributions with Subgroup Decompositions," Econometric Reviews, Accepted. Chen, Y.-T., Hsu, Y.-C. and Wang, H.-J.(2018), "A Stochastic Frontier Model with Endogenous Treatment Status and Mediator," Journal of Business & Economic Statistics, Accepted. Chen, Y.-T.(2018), "A Unified Approach to Estimating and Testing Income Distributions with Grouped Data," Journal of Business & Economic Statistics, 36, 438-455. 陳宜廷(2018), 「臺灣與南韓之經濟成長比較：合成控制法下的反事實分析」,《臺灣經濟預測與政策》, 接受刊登。 Chen, Y.-T.(2016), "Exceedance Correlation Tests for Financial Returns," Journal of Financial Econometrics, 14, 581-616. Chen, Y.-T. and Vincent, K.(2016), "The Role of Momentum, Sentiment, and Economic Fundamentals in Forecasting Bear Stock Market," Journal of Forecasting, 35, 504-527. Chen, Y.-T.(2016), "Testing for Granger Causality in Moments," Oxford Bulletin of Economics and Statistics, 78, 265-288. Chen, Y.-T.(2015), "On the Optimal Estimating Function Method for Conditional Correlation Models," Journal of Financial Econometrics, 13, 83-125. Chen, Y.-T.(2015), "Modeling Maximum Entropy Distributions for Financial Returns by Moment Combination and Selection," Journal of Financial Econometrics, 13, 414-455. Chen, Y.-T. and Qu, Z.(2015), "M Tests with a New Normalization Matrix," Econometric Reviews, 34, 617-652. Chen, Y.-T., Ho, K.-Y., and Tseng, L. Y.(2014), "Riskiness-Minimizing Spot-Futures Hedge Ratio," Journal of Banking & Finance, 40, 154-164. 曹添旺、王泓仁、林明仁、陳宜廷、張俊仁、黃綮堯(2013), 「經濟學門學術期刊評比更新」,《經濟論文》, 41(3), 327-361。 Chen, Y.-T. (2012), "A Simple Approach to Standardized-Residuals-

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榮譽獎項	中央研究院年輕學者研究著作獎 (2004)、國科會吳大猷先生紀念獎(2004)

<table>
<tr><th colspan="2">研習營-經濟學門- Bootstrap 與其應用</th></tr>
<tr><td>講題領域</td><td>計量經濟</td></tr>
<tr><td>講員</td><td>郭炳伸</td></tr>
<tr><td>講題</td><td>Bootstrap 與其應用</td></tr>
<tr><td>講題簡介</td><td>【講題重要性】
Bootstrap 是非常實用的計量技術，應用範圍包涵估計與統計推論等種種問題。Bootstrap 的概念為經由資料的重新抽樣（re-sampling），藉以估計統計量的分配。而且，在通常的情況下，Bootstrap 所提供的近似會比常用的極限近似來得精確。這項原因，輔以其方便操作，使得 Bootstrap 技術大量應用於實證研究，其重要性已不亞於極限近似。
【內容介紹】
在本主題中，我們將說明 Bootstrap 的理論基礎，並以實際例子示範 Bootstrap 的執行與限制。我們希望透過比較直覺式的討論，讓學者得以充分瞭解 Bootstrap 的實用價值。</td></tr>
<tr><td>建議閱讀文獻</td><td>Hall, P. (1994), ``Methodology and theory for the bootstrap,'' Handbook of Econometrics, vol. 4, eds. R.F. Engle and D.L. McFadden, NY: Elsevier Science.
Shao, J. and D. Tu (1995), The Jackknife and Bootstrap, NY: Springer.</td></tr>
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經歷	財政部賦改會副研究員 國立政治大學國貿系副教授
著作	"Tests of Partial Parameter Instability in Regression with I(1) Processes", Journal of Econometrics, 86/2, pp.337-368, 1998. "Asymptotics of ML Estimator for Regression Models with a Stochastic Trend Component", Econometric Theory 15, 24-49, 1999. "Re-examining the Long-Run Purchasing Power Parity", Journal of International Money and Finance, 18, 252-266, 1999 (with Anne Mikkola). "How Sure Are We About PPP? Panel Evidence with the Null of Stationary Real Exchange Rates", Journal of Money, Credit, and Banking, 33/3, 767-789, 2001 (with Anne Mikkola). "台幣/美元遠期外匯風險溢酬有多大?" (2001), 經濟論文, 29/4, 383-413 (與何祖平等合著)。 "新台幣實質有效匯率指數之動態分析" (2002), 台灣經濟預測與政策, 32/2, 93-130 (與曹添旺等合著)。 "消費行為受資金流動性限制嗎?經濟景氣的不對稱效果" (2002), 經濟論文, 30/4, 443-472 (與鍾景婷合著)。 "非線性貨幣衝擊與台幣/美元遠期溢酬" (2003), 經濟論文, 31/1, 91-124 (與何祖平合著)。 "借貸限制與市場流動性" (2004), 證券市場發展季刊, 16/3, 109-136 (與林鳴琴、江永裕合著)。 "預測績效檢定：簡單迴歸之應用" (2005), 經濟論文, 即將刊登 (與欉清全、李政峰合著)。 "WTO 新回合談判下關稅級距的最適調整－以台灣之農畜產品及食品加工業為例" (2005), 人文及社會科學集刊, 即將刊登 (與翁永和、陳坤銘合著)。
榮譽獎項	中研院 88 年度年輕學者研究著作獎

研習營-經濟學門-廠商異質性對廠商進入國際市場決策之影響	
講題領域	國際貿易理論與實證
講員	李宜
講題	廠商異質性對廠商進入國際市場決策之影響
講題簡介	**【講題重要性】** 傳統國際貿易理論著重國家間技術或資源分配差異而導致貿易發生，但忽略同一產業中不同廠商進入國際市場決策之差異。自 Melitz (2003)將廠商異質性融入國貿理論以來，許多國貿學者開始分析異質廠商進入出口市場或對外投資決策，以及貿易自由化下異質廠商創新活動以及進口行為的改變。在衡量廠商異質性方面，除了廠商「生產面」(如:生產力)的差異之外，近年來學者發現廠商「需求面」的差異(如:產品品質)也是解釋廠商出口(對外投資)區域選擇的一個重要因子。本課程著重於介紹廠商異質性(生產力與產品品質)的估計方法與其在國貿研究議題的相關應用。 **【內容介紹】** 1. 廠商異質性在國貿理論扮演的角色 2. 廠商異質性(生產力、產品品質、定價能力)的估計方法 3. 廠商出口活動、進口決策與創新活動
建議閱讀文獻	Aw, Bee-Yan and Yi Lee (2017) “Demand, Costs and Product Scope in the Export Market. European Economic Review, 100, pp. 28-49. Aw, Bee-Yan and Yi Lee (2014) “A Model of Demand, Productivity and Foreign Location Decision among Taiwanese Firms” Journal of International Economics, 92, pp. 304-316. Bernard, Andrew, J. Bradford Jensen, Stephen Redding and Peter Schott (2007) “Firms in International Trade," Journal of Economic Perspectives, Vol. 21, No. 3, pp.105-130. Crozet, Matthieu, Keith Head, and Thierry Mayer (2012): “Quality Sorting and Trade: Firm-level Evidence for French Wine,” The Review of Economic Studies, 79, 609-644. De Loecker, Jan, Penny Goldberg, and Amit Khandelwal (2016): “Prices, Markups and Trade Reform,” Econometrica, 84(2), pp. 445-510. Fan, Haichao, Yao Amber Li, and Stephen Yeaple (2015): “Trade Liberalization, Quality, and Export Prices”, The Review of Economics and Statistics, Vol. 97, No. 5, pp. 1033-1051. Gervais, Antoine (2015) “Product Quality and Firm Heterogeneity in International Trade," Canadian Journal of Economics, Vol. 48, Issue 3, pp. 1152-1174. Hottman, Colin, Stephen Redding and David Weinstein (2016): “Quantifying the Sources of Firm Heterogeneity”, The

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著作	"Firm Heterogeneity and Location Choices of Taiwanese Multinationals", with Bee Yan Aw, Journal of International Economics, Vol. 75, (May 2008), pp.167-179. "Product Choice and Market Competition: The Case of Multiproduct Electronic Plants in Taiwan", with Bee Yan Aw, The Scandinavian Journal of Economics, 111(4), (December 2009) pp. 711-740. 鄭保志，李宜 "台灣政府各項移轉收支的重分配效果比較: 1976--2006 之全面性與局部性分析",《經濟論文叢刊》，(2010) 38:2，pp. 233－288。 "Do local industrial agglomeration and foreign direct investment to China enhance the productivity of Taiwanese firms?" with Chyi, Yih-Luan, Eric S. Lin, and Shih-Ying Wu (2011) forthcoming in The Journal of International Trade & Economic Development.

<table>
<tr><th colspan="2">研習營-經濟學門- The Extensive and Intensive Margins of International Trade</th></tr>
<tr><td>講題領域</td><td>國際貿易理論與實證</td></tr>
<tr><td>講員</td><td>陳偉智</td></tr>
<tr><td>講題</td><td>The Extensive and Intensive Margins of International Trade</td></tr>
<tr><td>講題簡介</td><td>【講題重要性】
International trade grows at two margins: the extensive margin that represents the “width” of trade, and the intensive margin that captures the “depth” of trade. As more disaggregate and micro data of trade become available, empirical trade studies can investigate determinants of the extensive margin (such as the number of trading partners and products, firms’ entry and exit, and the issue of zero-trade flows) and the intensive margin (such as trade values, quality of traded products, and trade duration). The decomposition of aggregate trade flows into the two margins can help economists to understand the determinants of trade patterns and the welfare effects of trade growth.
This lecture will introduce the concepts and measurements of the extensive and intensive margins at the industry, product, and firm levels, and will discuss the applications in empirical trade literature of trade costs, regional trade agreements, and trade policies.
【內容介紹】
1. Introduction of the extensive and intensive margins.
2. Measurements of the extensive and intensive margins at the country, product, and firm levels.
3. Applications of the extensive and intensive margins in the literature of empirical trade regarding trade costs, regional trade agreements, and trade policies.</td></tr>
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Lawless, M. (2010). "Deconstructing Gravity: Trade Costs and Extensive and Intensive Margins." *Canadian Journal of Economics* **43**(4): 1147-1172.

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著作	*Wei-Chih Chen (2012), "Innovation and Export Duration Economics Letters 115(2), p. 305-308. ( )* *Wei-Chih Chen (2013), "The Extensive and Intensive Margins of Exports: The Role of Innovation The World Economy 36 (5), p. 607-635. ( )* *Xiaohua Bao and Wei-Chih Chen (2013), "The Impacts of Technical Barriers to Trade on Different Components of International Trade Review of Development Economics 17 (3), p447-460. ( )* *Tuan Anh Luong and Wei-Chih Chen (2016), "Extensive and Intensive Margins of Exports and Labor Heterogeneity Review of Development Economics, 20 (1), p. 201-213. ( )*

<table>
<tr><th colspan="2">研習營-經濟學門-異質性廠商與國際貿易：理論與實證</th></tr>
<tr><td>講題領域</td><td>國際貿易理論與實證</td></tr>
<tr><td>講員</td><td>馮炳萱</td></tr>
<tr><td>講題</td><td>異質性廠商與國際貿易：理論與實證</td></tr>
<tr><td>講題簡介</td><td>【講題重要性】
Starting in the mid 1990s, a series of empirical studies in international trade found that even within narrowly defined industries, firms are heterogeneous in productivity; and that trade liberalization increases aggregate productivity by allocating market shares toward more productive (exporting) firms. These stylized facts were later explained by crucial theoretical models such as Melitz (2003) and they together have stimulated further theoretical and empirical exploration in the role of firms in international trade and productivity growth. These interactions of theoretical and empirical studies have shaped an important part of international trade research in the past twenty years.

【內容介紹】
This lecture provides an overview of theories and empirical studies on how heterogeneous firms react to trade liberalization and other changes in macroeconomic environment. It will start with basic theories on international trade with heterogeneous firms and empirical evidence. It will then extend to various applications and multiproduct firms. Lecture materials will cover related literature, including some of the lecturer's recent and on-going research.</td></tr>
<tr><td>建議閱讀文獻</td><td>Baggs, J., E. Beaulieu and L. Fung (2009) "Firm Survival, Performance and the Exchange Rate," Canadian Journal of Economics 42(2): 393-421.
Baggs, J., L. Fung and Beverly Lapham (2016). "Exchange Rate, Cross Border Travel, and Retailers: Theory and Empirics" Manuscript.
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Bernard, A. B., J. B. Jensen, S. J. Redding and P. K. Schott (2007). "Firms in International Trade." Journal of Economic</td></tr>
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