

# **LARRY SJAASTAD, THE LAST CHICAGOAN**

by

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<sup>1</sup> This paper is based on a speech I gave at the dinner of the Conference on FTAs, organised by the Trade, Migration and Development Research Centre, The University of Western Australia, 6 July 2004. I have benefited from comments from and discussions with Bill Dougan, Irene Glasner, Izan, Paul Miller and Larry Sjaastad. I thank Mei Han for research assistance and Jim Lothian for encouragement.

In 2004 Larry Sjaastad retired after 42 years from teaching economics at The University of Chicago. This paper marks that occasion by providing some little-known biographical information about Larry, discusses his research, activities in Latin America, his role as a teacher, his place in Chicago economics, and Larry as a person. In what follows, I draw on a book of letters from 72 of Larry's former students and colleagues that was presented to him in July 2004 at The University of Western Australia (Clements and Tcha, 2004a,b); these letters provide considerable insight into Larry and his career.

### From Where Did Larry Come?

Larry was born in 1934 into strong Viking stock in North Dakota. All four of his grandparents migrated from Norway in the 1880s. Frank Knight, Ted Schultz and Gale Johnson, all great Chicago economists, grew up on farms in the back blocks of the Mid West, and the same was true of Larry who started life on the family farm in North Dakota.

Like many farm boys, his father allocated to him some land to grow a crop on the basis that you do all the work, and then you get to keep the proceeds after expenses have been covered. I suppose that it was a bit like rural Australia and that most farm boys in North Dakota bought fishing rods, rifles and motor bikes with their new found wealth. Not Larry however, who showed an early creative interest by using the money from his flax crop to buy a typewriter, to do some serious writing.

After high school came studies in electrical engineering at North Dakota Agricultural College where Larry continued his interest in writing, by contributing to the student newspaper. Those who have spoken to Larry about how computers really work, or better still, the theory of electricity, know that he has a special understanding of these matters -- it all originated from the NDAC.

Then came what eventually turned out to be a very fortunate event, but at the time must have seemed catastrophic: Larry adopted a rather questioning attitude to the college administration that probably had a bit of a biting tone to it; those who know Larry will be able to imagine what it would have been like! After a senior faculty member laid down the law about what he could and could not do, and possibly what he could and could not think, Larry decided that enough was enough, and simply left North Dakota Agricultural College halfway through his electrical engineering studies. This occurred in the mid 50s, around the time of McCarthyism with rampant allegations of non-American activities, communism etc., and Larry was a victim of that unfortunate period.

In any event, it was probably a good thing for economics that Larry left North Dakota early in life, as he then landed a scholarship to go The University of Chicago, where he did a BA, MA and PhD. Working with Al Harberger, Margaret Reid and Ted Schultz, Larry's thesis was path-breaking extension of human capital theory. He analysed the decision to migrate by comparing the costs of forgone earnings in the origin location with the discounted present value of higher expected earnings to be had in the destination.

In a letter to Larry from his colleague Bob Lucas, Bob described the thesis this way:

You and I were both students of Al Harberger and Gregg Lewis, and I remember that both of them used you as an example for later cohorts of what it meant to be a successful PhD student. Gregg especially admired the mix of theory, careful empirical work, and substantive interest of your thesis, and held it up as a level of research achievement that we should aspire to. In this as in so many other matters, I think Gregg's taste turned out to be pretty good.<sup>2</sup>

The thesis led to the seminal article "Costs and Returns of Human Migration", published in the Journal of Political Economy in 1962 (Sjaastad, 1962). This is probably the most widely cited article in the area, and even just since 1987 it has attracted more than 250 citations, the hallmark of a truly influential work.

Larry's first academic job was at the University of Minnesota, where he was very close to Anne Krueger, who is now the First Deputy Managing Director of the IMF. He then led the first program in Latin America under President Kennedy's Alliance for Progress Program; indeed, it was always noted as "la1". That program was at the National University of Cuyo, in Mendoza, Argentina. In 1962 Larry returned to Chicago, where he has been ever since.

### Contributions in Public Finance and International Economics

In addition to the migration work, Larry has made lasting research contributions in several other areas, most importantly public finance and international economics.

In his 1977 JPE article with Daniel Wisecarver "The Social Cost of Public Finance" (Sjaastad, 1977), Larry developed a highly innovative normative theory of government that relates to all aspects of taxation and spending policies. This is a comprehensive theory which shows in a very neat manner exactly how all elements of public finance are related and hang together.

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<sup>2</sup> This letter, and the others from which I quote below, are from Clements and Tcha (2004a,b).

For many years, a key concern in international trade was the analysis of the effects of systems of trade taxes and subsidies. Larry invented a new concept of protection that substantially advanced understanding of the issues with “true protection”. This was a great idea that showed in a very simple manner, just what trade taxes did to raise costs in general. It was this rise in costs that was the key to understanding how import protection had the unintended consequences of punishing the country’s own exporters -- they were landed with the higher costs and simply couldn’t pass them on in the form of higher prices, so they end up getting squeezed. Larry has published a number of papers on this topic, but the key reference is Sjaastad (1980). True protection caught on like wildfire, especially in Latin America because of the power of the idea, and because it was just what economists wanted in situations where the problem is important and detailed reliable data are missing. This research was also influential in some developed economies such as Spain, as is indicated by the following quotation from a letter from Alfonso Carbajo:

Few people know that Larry played a crucial role in setting the path for economic reform in Spain in the late seventies and early eighties. In those years, a small group of reformers in the Ministry of Trade drew on his research on commercial policy, particularly on his findings of protection as a tax on exports, to make a case for dismantling trade barriers. All the time, expansion of exports was a widely held political objective, and Larry’s research provided nice ammunition to head off protectionist pressures. Then, in the early eighties, both in formal presentations and in informal discussions, Larry himself forcefully conveyed to leading officials and politicians the advantages of radical economic reform. Larry, many of the political actors of that period now think that, thanks to your insights back then, the road toward economic efficiency in this country has been much less bumpier than it could have been otherwise.

One other aspect of true protection is worth mentioning. The nomenclature “true protection” was a truly brilliant marketing device as it immediately conjures up the idea that all other measures of protection are false.<sup>3</sup>

In recent years, Larry and his students have been working on a simple but highly sophisticated general-equilibrium model of exchange rates and prices for all major countries in the world, and how changes in one exchange rate are transmitted around the world. The most recent installment of this work is his paper “Preferential Trading

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<sup>3</sup> Perhaps this explains why Max Corden was hostile to the idea.

Agreements and Exchange Rate Regimes”, presented at the UWA Conference on FTAs, that relates to the inevitable consequences of changes in third-country exchange rates for real exchange rates and interest rates in countries joining what Larry calls a “DTA”, a discriminatory trade agreement.<sup>4</sup>

### Influence in Latin America

Ever since working at Mendoza in the early 1960s, Larry has had strong ties with Latin America in the form of research, teaching and students from the region at Chicago. Together with Al Harberger, Larry organised the highly productive Latin American Workshop at Chicago, at which students and visitors presented research on LA topics. Larry has strong professional contacts with Chile and Argentina in particular, and such is his knowledge of, and influence in, Latin America that he is treated almost as a god when he visits, certainly a guru.

The following two quotes from letters serve to give a flavour of Larry’s role in Latin America:

Your efforts remain visible, and will remain visible, as Latin American countries move haltingly towards more liberal, pro-growth policies. It was a long struggle to break with the Prebisch tradition. You can be proud that your contributions had a major impact on making that transition possible.

Allen H. Meltzer

You have made an impact on economists and friends in all the continents. But first and perhaps mostly in Latin America where “the Chicago boys” became known for their evangelical spread of the wisdom of free markets, laissez-faire and economic stability.

The “Chicago boys” were sometimes associated with Milton Freidman. However, I once heard our friend Al Harberger complain: “The Chicago boys are *my* boys!” He was right! But without Larry Sjaastad, who was, at the beginning at least, Al’s lieutenant, Chicago’s impact on Latin America would have been much less.

Robert Mundell

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<sup>4</sup> Other contributions by Larry to the topic of prices and exchange rates for all major countries include Sjaastad (1989, 1990, 1996, 1998a,b, 1999, 2000, 2001, 2003).

## Larry and Students

The research that I described above is well known to the economics profession. What is less well known to those outside of Chicago is Larry's activities with students. At Chicago, everyone does considerable teaching, and effective teaching is greatly admired by all at the University. Interestingly, the luminaries such as Becker, Friedman and Harberger were simply dazzling in the classroom. Within this context with the bar raised so high, many students still felt that Larry was one of the best teachers at Chicago. His courses were highly sought after and he taught high-level analytical material that was motivated by real-world considerations. Larry's special talent was to be able to make the material accessible to a large number of students, and to emphasise intuition and fundamentals, not the latest fad -- it was a question of old truths, rather than new falsehoods.

At Chicago, Larry supervised no less than 139 PhD dissertations over 42 years, which must account for something like 20 percent of all PhDs in economics that finished at Chicago during that time. On average, that represents supervising to completion 3.3 students per year, an astonishing achievement way beyond the capabilities of most. The names and thesis titles of these students are contained in the Appendix. The substantial diversity of the topics of the theses is a genuine reflection of the breadth of Larry's expertise in economics.

Many of the letters from former students allude to the life-changing experience of being taught by Larry, being exposed to his seriousness of purpose in economics, his generosity to students, his exceptional sense of fun, and his outstanding qualities as a human being. The following quotations from letters from former students provide a feel for these sentiments:

The greatest privilege anybody can experience as an economics student is the opportunity to attend the University of Chicago, especially in those golden years when Nobel prizes were being incubated. Within the economics department of the University one of the sharpest minds belonged to Larry Sjaastad, who achieved the rare simultaneity of being a great economist and a clear expositor.

...[W]ithout any doubt the best showcase of Larry's educational virtues were his lectures. Almost without exception Chicago lecturers were fabulous -- no tolerance in Chicago to indifference towards poor class performance in favour of an exclusive concentration on research and publications -- but Larry stood out among the best. His

lectures were thoroughly prepared and carefully presented; class notes were easy to take and became eternal treasures.

Francisco Gil Díaz

I am not exaggerating in saying that he was the professor from whom I learned the most important lesson: the enjoyment of economics as a profession. Larry's classes added an enormous and useful set of tools that I continue using in my professional life. Larry has a way of making everything he taught challenging and interesting.

Carlos Alfredo Rodriguez

Before taking your class, I had as much difficulty reconciling the Keynesian and neoclassical approaches as most other people. Macroeconomics had always struck me as more a matter of choosing sides than synthesizing knowledge. You showed my classmates and I how everything fit together, to the point of being able to build a neoclassical edifice with Keynesian bricks. Moreover, you performed this feat so effortlessly that it seemed to us students as if we had done it ourselves. This is truly brilliant teaching, which I have quite shamelessly and most imperfectly mimicked over several decades.

Bill Dougan

I still recall the clarity with which you expressed the macroeconomics that was so hard for those of us with limited training. It was a revelation and you were the magician. I confess I used many of your ideas when I taught my own macroeconomics courses. But I guess that is what happens to good teachers: their ideas are promptly cribbed by their students. At least that is how I rationalize my theft!

Steve Easton

Like so many others, I had come to Chicago lured by the prospect of studying at the department made famous by the likes of Milton Friedman and George Stigler. Taking his class, I remember at the time being most impressed by Larry's ability to smoke and teach simultaneously. Looking back from a vantage of two decades, I realize I learned more in his class than any other. Most importantly, I learned that economics mattered and was worth taking seriously.

John Devereux

## The Last Chicagoan

As mentioned before, Larry's type of economics is analytical yet applied, and is always motivated by just trying to understand the way the world works. Larry used to be closely associated with Al Hargerber, Harry Johnson and Bob Mundell when they were at Chicago -- economists who had something interesting to say about almost everything in economics. This of course is canonical Chicago economics.

For good or bad, the era in which this sort of economics is vigorously practiced at Chicago seems to be drawing to a close. This is a bit ironic, as the demand for this style of economics has never been stronger. In any event, new Chicagoans now seem to have a less distinctive style (a reflection of globalisation?), and are possibly now less influential. As Larry is the last one left of this group, I think it is legitimate to call him "The Last Chicagoan" -- the Last *Old* Chicagoan. Some of the letters in the book have something interesting to say about the passing of Old Chicago. For example:

I think of my days at Chicago as being on the cusp -- a time where the policy relevance of economics (which is why I wanted to study economics in the first place) was giving way to the mathematics of economics. While the profession may one day come back around to its more worldly roots, I wanted to tell you how inspirational you were to me...Your courses remain guiding posts.

Kenneth M. Miranda

You are one of the last exponents of a style of economics at which The University of Chicago excelled for decades, a tradition that has been superseded by a new paradigm that tries to understand simple properties of economies using models based on representative agents choosing optimal programs in an infinite horizon. And while I benefited also from learning this modern approach in my days at Chicago, I cannot help often ask what do young applied economists, who are not as lucky as I was, being exposed to masters of both approaches, do today to fill the gap and disentangle the unlimited questions that come to their desk in their daily work.

Edgardo Favaro

When I think back to those years at The University of Chicago I realize that it was from you that I learned everything of practical relevance in graduate school. In an academic environment where the emphasis was so skewed towards theoretical issues it was refreshing to sit in your



courses and glide towards reality. Monetary policy, exchange rate regimes, development issues, in your teachings lost their abstract bearing and assumed a relevance that was to me of the utmost importance as an economist at the International Monetary Fund, at the European Central Bank, and in financial markets. Formal models in your classes were related to the nuts and bolts of an actual economic system in a way that was intellectually challenging and extremely useful...[Y]our teaching has been precious, far more than some now forgotten models which at the time represented the latest fad.

Fabio Scacciavillani

It's an understatement to say that you stand among the very few top ranked economists in the world. The department is losing its best economist, one who is devoted to economics in its truest sense. I want to thank you personally for so many jobs well done as we have shared thesis committees and workshop activities together, and for so many fruitful intellectual interchanges. You are my most valued colleague. Darn you for retiring!

George Tolley

### Larry the Larrikin

No account of Larry and his activities would be complete without something about "Larry the person". Larry has a strong personality and puts his ideas forcefully. He is a relentless debater and awesome when in full flight at a Chicago workshop or elsewhere -- especially if he thinks the presenter is talking nonsense! Larry is unpretentious in his style, and has a particular dislike of pomposity. While he has great seriousness of purpose in his work, at the same time Larry is kind and generous to anyone who genuinely wants to learn. For the last two decades he has been the primary carer of his wife Irene who suffered a stroke; he is devoted to Irene and I have never heard him complain of his onerous responsibilities.

Additionally, Larry has irreverence for authority, which no doubt helps when dreaming up all those creative ideas which challenge orthodoxy. He also has a great sense of style and fun, which Australians would affectionately refer to as "larrikinism". These dimensions of Larry's nature are clearly revealed in the following three quotations from the letters:

[After a lunch at a colleague's home], I found in utter shock that all the four hubcaps from my near-new Mitsubishi sedan were missing. I was pretty annoyed and told my host that his house was located in a rough suburb that was full of thugs and thieves of motor car parts! ... You expressed your genuine sympathy to me!...[I]magine my surprise when the day after the incident, Ken Clements gave me the hubcaps back and said that you, Larry Sjaastad, Professor of Economics at The University of Chicago, had planned the entire prank!

Robin Ghosh

I will never forget the day I gave my thesis seminar, and the party that followed that night...That night a large group of your students, friends and their spouses gathered in the party room located in the top floor of the building in South Shore Drive where Luis and Maria Antonieta Durán lived. The party went on until early in the morning, 5.00-6.00 am, of the following day. When you proposed to continue the party at your house to those of us still standing, precariously I would say, we gladly accepted. I remember entering the elevator with you and others and, to our surprise, you started pushing all the buttons on the way down. We thought you were out of your mind, but what you did after that surprised us even more. When the elevator stopped in each floor, you would come out, run through the corridor and ring the bells of the apartments in the floor. We arrived safely at the lobby and left unscathed for your house.

Jorge García-García

[In about 1987 you visited] Monash University's Centre of Policy Studies, *en route* to the University of Western Australia. The arrangement was that you would stay at my house, which was close to the campus. My recollection is that you arrived at about 9.00am, jet-lagged off the grueling trans-Pacific flight. Keen to try to repay at least some of the generosity and hospitality I had received in many different forms from the Chicago faculty, and to get first-hand news of the Department, I (for some retrospectively unaccountable reason) suggested we have a beer. I think I detected some surprise, but you nevertheless went along with the suggestion, possibly taking it to be a quaint Australian ritual. (I'm pretty certain I hadn't previously started drinking beer at that hour since my undergraduate days at the University of Western Australia.) Be that as it may I, at least, enjoyed immensely the ensuing few hours of conversation over quite

a few beers. So much so that I completely lost sight of the fact that you were scheduled for a 1 pm lunch followed by a 3 pm seminar. During the seminar I suffered wave after wave of remorse as I watched you struggle valiantly (and remarkably successfully) to stay focused. But my suffering must have been as nothing compared with yours. It could only have been the early conditioning in the Dakota wheat fields that got you through that afternoon.

Geoff Hogbin

**APPENDIX**

TABLE 1

PHD STUDENTS SUPERVISED AT CHICAGO BY LARRY SJAASTAD

| Name                              | Year | Thesis Title   |
|-----------------------------------|------|--|
| 1. Abrantes-Metz, Rosa Maria      | 2002 | <i>Before and After the EMU: Financial Integration, Monetary Policy and Welfare Changes</i>  |
| 2. Ackerman, Glenn                | 1994 | <i>Renters, Homeowners, Politics, and Tiebout</i>  |
| 3. Aguilera, Nelly                | 2000 | <i>Measuring Aggregate Price Levels</i>  |
| 4. Almansi, Aquiles               | 1986 | <i>Essays on Incentive Problems in International Credit Markets</i>  |
| 5. Almonacid, Ruben D.            | 1971 | <i>Nominal Income, Output and Prices in the Short Run</i>  |
| 6. Annunziato, Paolo              | 1992 | <i>Pricing Practices in Markets With Product Differentiation: The Case of the Automobile Industry in Europe</i>                        |
| 7. Ardito, Nicolas                | 1971 | <i>Costs and Social Benefits of Agricultural Research in Mexico</i>  |
| 8. Auernheimer, Leonardo          | 1973 | <i>Essays of the Pure Theory of Inflation</i>  |
| 9. Avishur, Arieh                 | 1994 | <i>The Effect of the Privatization of British Telecom on Efficiency: A Dual Approach</i>   |
| 10. Balino, Tomas T. T.           | 1977 | <i>Argentine Monetary and Banking Reform of 1946</i>   |
| 11. Baranes, Amos                 | 1989 | <i>Changes in the Tax Saving From Taxable Acquisitions and Tax-Free Reorganization Over Time</i>                                       |
| 12. Barcinski, Alexandre          | 2001 | <i>An Empirical Investigation of the Secondary Market of Sovereign Bonds</i>   |
| 13. Bender, Bruce                 | 1976 | <i>The Determinants of Housing Abandonment</i>   |
| 14. Bender, John                  | 1985 | <i>Technology, Unskilled Labor, and the Decline of New England Cotton Textiles</i>   |
| 15. Bolanos, Rodrigo              | 1982 | <i>Optimal Operation and Investment in a Predominantly Hydroelectric System With Water Storage Capacity</i>                            |
| 16. Burns, Joseph M.              | 1967 | <i>The Real Sector in a Theory of Finance With Special Emphasis on Financial Innovation, the Costs of Finance, and Economic Growth</i> |
| 17. Byerts, William               | 1975 | <i>Panama and the World Inflation</i>  |
| 18. Canales-Kriljenko, Jorge Ivan | 1996 | <i>The Peruvian Hyperinflation</i>   |
| 19. Castaneda, Tarsicio           | 1979 | <i>Fertility, Child Schooling and the Labor Force Participation of Mothers in Colombia, 1977</i>                                       |
| 20. Carstens, Agustin             | 1985 | <i>A Study on the Mexico Peso Forward Exchange Market</i>  |

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TABLE 1 (Continued)

## PHD STUDENTS SUPERVISED AT CHICAGO BY LARRY SJAASTAD

| Name                       | Year | Thesis Title   |
|----------------------------|------|--|
| 21. Carvalho, Jose         | 1972 | <i>Production, Investment and Expectations: A Study of the United States Cattle Industry</i>   |
| 22. Chang, Keun Ho         | 1994 | <i>A Model of the Tax Structure of U. S. State Government</i>  |
| 23. Chen, Chau - Nan       | 1970 | <i>Flexible Bimetallic Exchange Rates and Optimum Currency Areas: A Theory of Bimetallism</i>  |
| 24. Cheng, Kevin           | 2002 | <i>Economic Implications of China's Population in the 21st Century</i>   |
| 25. Choi, Soon-Young       | 2002 | <i>The Chonsei Housing Rental Market of Korea</i>  |
| 26. Chua, Vicent           | 1989 | <i>Estimating Congestion and Scale Economies for Public Goods</i>  |
| 27. Chun, Suk-Kyu          | 1995 | <i>Trade Liberalization, Capital inflows, and Economies of Scale: A General Equilibrium Approach</i>                                 |
| 28. Clements, Kenneth W.   | 1977 | <i>The Trade Balance in Monetary General Equilibrium</i>   |
| 29. Corbo, Mario           | 1974 | <i>Schooling Experience and Wages in Santiago, Chile</i>   |
| 30. Cordomi, Manuel        | 1969 | <i>A Study of the Production of Sugar in Tucuman, Argentine</i>  |
| 31. Damus, Roberto S.      | 1979 | <i>A Two-Part Ramsey-Optimum Railroad Tariff</i>   |
| 32. Della-Paolera, Gerardo | 1988 | <i>How the Argentine Economy Performed During the International Gold Standard: A Reexamination</i>                                   |
| 33. De Nicola, Carlo       | 1995 | <i>The Benefits of Economic Integration Among European Countries</i>   |
| 34. Devereux, John         | 1989 | <i>The Incidence of Commercial Policy in Developing Countries: Theory and Evidence</i>   |
| 35. Dick, Andrew           | 1989 | <i>Imperfect International Competition in Innovation and Product Markets: Theoretical Implications With an Empirical Application</i> |
| 36. Dougan, William R.     | 1981 | <i>The Political Economy of Protection</i>   |
| 37. Durkin, John           | 1991 | <i>Theory and Evidence on Scale, Trade, Structural Change and Economic Development</i>   |
| 38. Elias, Victor J.       | 1969 | <i>Estimates of Value Added, Capital and Labor in Argentine Manufacturing 1935-1963</i>  |
| 39. Erceg, Christopher     | 1993 | <i>A Dynamic General Equilibrium Model of the Housing Market</i>   |
| 40. Fernandez, Carlos      | 1999 | <i>Inflation and Welfare in an Endogenously Growing Economy</i>  |

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TABLE 1 (Continued)

## PHD STUDENTS SUPERVISED AT CHICAGO BY LARRY SJAASTAD

| Name                       | Year | Thesis Title   |
|----------------------------|------|--|
| 41. Fontaine, Ernesto      | 1964 | <i>The Sugar Beet Industry in Chile: A Cost Benefit Analysis</i>   |
| 42. French-Davis, Richardo | 1971 | <i>Economic Policies and Stabilization Programs, Chile 1952-1969</i>   |
| 43. Garcia, Valeriano F.   | 1973 | <i>A Critical Inquiry into Argentine Economic History, 1946-1970</i>   |
| 44. Garcia, Daniel David   | 1998 | <i>The Argentine Labor Market: History and Theory</i>  |
| 45. Garcia-Garcia, Jorge   | 1976 | <i>A History of Economic Policies in Colombia: 1953-1970</i>   |
| 46. Ge, Zening             | 1996 | <i>Real Growth Targeting, Money Supply and Fluctuations in the Transitional Chinese Economy</i>                  |
| 47. Genel, Julio A.        | 1977 | <i>On the State's Strategy for Financial Development: The Problem of Noninflationary Financing in Mexico</i>     |
| 48. Gil Diaz, Francisco    | 1982 | <i>Three Essays on the Taxation of Capital</i>   |
| 49. Godek, Paul            | 1983 | <i>Aspects of the Positive Theory of Trade Restrictions</i>  |
| 50. Gomez, Javier          | 1995 | <i>Three Cases Studies on Exchange Rates</i>   |
| 51. Gonclaves, Antonio     | 1974 | <i>The Problem of Stopping Inflation</i>   |
| 52. Gressel, Daniel        | 1984 | <i>The Effects of Trade Policy, Size of Government and Inflation on Growth Rates in Less Developed countries</i> |
| 53. Griffes, Peter Hoyt    | 1993 | <i>Risk Sharing in Electricity Generation: The Case of Jointly Owned Plants</i>                                  |
| 54. Guedes, Paulo          | 1978 | <i>Fiscal Policy, Public Debt and External Indebtness in Non-Monetary Two Sector Open Growth Models</i>          |
| 55. Gutierrez, Mario       | 1987 | <i>Essays of the System of National Accounts in LDC's</i>  |
| 56. Hachette, Dominique    | 1973 | <i>Revaluation of the Escudo and Distribution of Income</i>  |
| 57. Hansen, Ronald         | 1982 | <i>Cost and Benefits of Innovation and Regulation in the Pharmaceutical Industry</i>                             |
| 58. Haroun, Mansour        | 1994 | <i>Mortgage Choice and Asset Pricing</i>   |
| 59. Harvath, Michael       | 1994 | <i>The Use of Categorical Programs for Income Redistribution</i>   |
| 60. Hernandez, Lilana      | 2001 | <i>Sterilization of Capital Inflows: Its Impact on Market Liquidity and Currency Collapses</i>                   |

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TABLE 1 (Continued)

## PHD STUDENTS SUPERVISED AT CHICAGO BY LARRY SJAASTAD

| Name                       | Year | Thesis Title  |
|----------------------------|------|---|
| 61. Hernandez, Luis Mario  | 2000 | <i>An Essay on City Sizes and Urbanization Processes</i>  |
| 62. Hsu, David             | 1995 | <i>Inter-Area Differences in Wages: Theory and Evidence</i>   |
| 63. Hur, Seok-kyun         | 2002 | <i>Two Essays in Financial Decision-Making</i>  |
| 64. Hurtado, Carlos        | 1986 | <i>The Real Exchange Rate and Its Relationship to Capital Flows, Public Deficits, and Portfolio Choice in a Small Economy</i> |
| 65. Johnson, Andrew        | 1997 | <i>Taxation and Economic Growth: An International Comparison</i>  |
| 66. Joun, Han Gun          | 1994 | <i>Family Member Quality and Housing Demand</i>   |
| 67. Juan Ramon, V. Hugo    | 1988 | <i>External Shocks and Fluctuations in the Domestic Real Rate of Interest</i>   |
| 68. Kahn, Peter            | 1981 | <i>Short Run Effects of Trade Liberalization</i>  |
| 69. Kim, Chong Sup         | 1991 | <i>Deficits, Debt Capitals, Flight, and Finite Horizons--An Exercise in the Theory of the Second Best</i>                     |
| 70. Kim, Inchul            | 1981 | <i>A Partial Adjustment Approach to the Balance of Payment in Korea: Theory and Evidence</i>                                  |
| 71. Kim, June Dong         | 1991 | <i>The Incidence of Protection: The Korean Case and Some International Comparisons</i>  |
| 72. Kitti, Carole          | 1973 | <i>Patent Policy and the Optimal Timing of Innovations</i>  |
| 73. Koerner, Craig Martin  | 2000 | <i>Explaining Industry Level R and D Expenditures with a Stock of Knowledge Variables</i>                                     |
| 74. Le, Thuan-nghi         | 1997 | <i>Co-Movements Between Consumption and Output Growth in the Open Economy</i>   |
| 75. Lee, Shi Young         | 1994 | <i>Essays on the Latin American Debt Crisis</i>   |
| 76. Lee, Taiki             | 2000 | <i>The Asian Crisis and Stock Market Co-Movements: The US Market Effects on the Korean and Japanese Markets</i>               |
| 77. Lee, Ungkeun Augustine | 1996 | <i>Factor Mobility and the Demand for Trade Liberalization in the United States</i>   |
| 78. Lefton, Norman         | 1972 | <i>The Demand for Real Cash Balances and the Expected Permanent and Contemporaneous Rates of Inflation</i>                    |
| 79. Liao, Szu-Lang         | 1994 | <i>Real Estate Investment and Pricing: The Role of Transaction Costs</i>  |
| 80. Lizondo, Jose          | 1979 | <i>Three Essays in International Economics</i>  |

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TABLE 1 (Continued)

## PHD STUDENTS SUPERVISED AT CHICAGO BY LARRY SJAASTAD

| Name                       | Year | Thesis Title  |
|----------------------------|------|---|
| 81. Lo Passo, Francesco    | 1994 | <i>Italian State Owned Enterprises: An Empirical Study of Changes in Agency Cost</i>                                |
| 82. Longoni, Carlos        | 1970 | <i>A Study in Economic Growth: The Brazilian Case</i>   |
| 83. Loser, Claudio         | 1971 | <i>The Intensity of Trade Restrictions in Argentina: 1939-68</i>  |
| 84. Luders, Rolf           | 1968 | <i>A Monetary History of Chile: 1925-58</i>   |
| 85. Mankin, Wyatt          | 1971 | <i>Home Ownership and Race</i>  |
| 86. Marquez -Ruarte, Jorge | 1975 | <i>The Two-Sector Model of Production</i>   |
| 87. Martinez, Miguel E.    | 1970 | <i>The Trans-Andean Highway: A Cost-Benefit Case Study</i>  |
| 88. May, Josef             | 1968 | <i>An Adjustment Mechanism Based on Anticipations in a Macro-Economic Model</i>                                     |
| 89. McGrew, Wesley         | 1988 | <i>Budget Deficits in an Open Economy: Effects on Real Exchange Rates, Interest Rates, and Investment</i>           |
| 90. Medina, Juan Jorge     | 1987 | <i>Protection, True Protection, and Aggregate Protection</i>  |
| 91. Metz, Albert           | 2002 | <i>Estimating the Tax Shelter Value of Commercial Office Real Estate: Consequence of the Tax Reform Act of 1986</i> |
| 92. Miller, Suzanne        | 1996 | <i>Public-Private Competition: The Case of Phoenix</i>  |
| 93. Milner, Humphrey H.    | 1975 | <i>Puerto Rican Growth: A Two-Stage CES Production Function</i>   |
| 94. Miranda, Kenneth       | 1986 | <i>Manufactured Export Performances in Developing Countries: A Sectoral Trade Model Approach</i>                    |
| 95. Moura, Marcelo         | 2000 | <i>An Essay on the Effects of Government Deficits on Equilibrium Real Exchange Rates and Stock Prices</i>           |
| 96. Mudd, Shannon          | 1994 | <i>The Structure of Trade in a Model of Quality-Differentiated Goods and Human Capital</i>                          |
| 97. Musalem, Alberto R.    | 1971 | <i>The Demand for Money and the Balance of Payments of Colombia, 1950-1966</i>                                      |
| 98. Nielson, Mark          | 1993 | <i>Investigation Costs and the Effects of Own Variance on Security Prices</i>                                       |
| 99. Noer, John             | 1988 | <i>Essays on International Arbitrage and Market Efficiency</i>  |
| 100. Novaes, Rudem         | 1974 | <i>Foreign Investment in Brazil - An Economic Analysis</i>  |

(Continued on next page)



TABLE 1 (Continued)

## PHD STUDENTS SUPERVISED AT CHICAGO BY LARRY SJAASTAD

| Name                       | Year | Thesis Title   |
|----------------------------|------|--|
| 101. Pang, Xinbang         | 2003 | <i>Two Essays on Foreign Trade in China</i>  |
| 102. Panzer, John          | 1989 | <i>Aspects of the Political Economy of Protection</i>  |
| 103. Petrei, Amalio H.     | 1971 | <i>Rates of Return to Physical Capital in Manufacturing Industries in Argentina</i>                        |
| 104. Pou, Pedro            | 1978 | <i>Money and the Balance of Payments: The Experience of Argentina and Brazil</i>                           |
| 105. Rapoport, Alan        | 1975 | <i>The Protective Policies of Panama: An Empirical Study</i>   |
| 106. Reca, Lucio G.        | 1967 | <i>The Price and Production Duality Within Argentine Agriculture, 1923-1965</i>                            |
| 107. Riboud, Mischelle     | 1977 | <i>An Analysis of Earnings Distribution in France</i>  |
| 108. Rivera, Luis A.       | 1992 | <i>Essays on Trade, Techniques, and Economic Growth</i>  |
| 109. Saieh, Alvaro         | 1980 | <i>Behavior of Monetary Variables in Fixed Exchange Rate Economics</i>                                     |
| 110. Sanchez, Fernando     | 1983 | <i>Tax Incentives to Investment for the Promotion of Industry: The Mexican Experience</i>                  |
| 111. Sapelli, Claudio      | 1985 | <i>Government Policy and the Uruguayan Beef Sector</i>   |
| 112. Scacciavillani, Fabio | 1993 | <i>Long Memory Processes in Speculative Markets</i>  |
| 113. Schenone, Osvaldo     | 1973 | <i>A Dynamic Analysis of Taxation</i>  |
| 114. Schickele, Sandra     | 1977 | <i>The Social Opportunity Cost of Urban Labor in the United States</i>                                     |
| 115. Schwartz, Aba         | 1968 | <i>Migration and Life Span Earnings in the U. S.</i>   |
| 116. Selowsky, Marcelo     | 1967 | <i>Education and Economic Growth: Some International Comparisons</i>                                       |
| 117. Shampine, Allan       | 1996 | <i>An Evaluation of Technology Diffusion Models and Their Implications</i>                                 |
| 118. Sowell, Thomas        | 1968 | <i>Say's Law and the General Glut Controversy</i>  |
| 119. Tao, Ran              | 2002 | <i>Urban and Rural Household Taxation in China: Measurement, Economic Analysis and Policy Implications</i> |
| 120. Tcha, MoonJoong       | 1992 | <i>Altruism and Migration--Korea and the United States</i>   |

(Continued on next page)

TABLE 1 (Continued)

## PHD STUDENTS SUPERVISED AT CHICAGO BY LARRY SJAASTAD

| Name                           | Year | Thesis Title  |
|--------------------------------|------|---|
| 121. Teubal, Morris F. D.      | 1967 | <i>Inflation, Unemployment and Economic Growth</i>  |
| 122. Thomas, Vinod             | 1977 | <i>The Welfare Cost of Pollution Control With Special Alternatives</i>  |
| 123. Toribio, Juan Jose        | 1970 | <i>On the Monetary Effects of Repressed Inflation</i>   |
| 124. Tullio, Giuseppe          | 1977 | <i>Monetary Equilibrium and Balance of Payment Adjustment: An Empirical Test of the U. S. Balance of Payments</i>                   |
| 125. Verstraete, Juan          | 1975 | <i>An Investment Function for Belgium</i>   |
| 126. Viana, Luis               | 1987 | <i>Real Exchange Rates and Real Interest Rates During Liberalization, Boom, and Crisis: The Cases of Uruguay and Chile, 1976-82</i> |
| 127. Videla, Pedro Luis        | 1994 | <i>Stabilization Policies for a Small Economy in a World of Flexible Exchange Rates</i>   |
| 128. Visaruthvong, Chonlathan  | 1997 | <i>Tax Evasion and Penalty Structure</i>  |
| 129. Vora, Ankur               | 2003 | <i>Impact of Foreign Direct Investment on Developing Country Credit Markets</i>   |
| 130. Wada, Kenji               | 1999 | <i>Essay in Public Finance</i>  |
| 131. Wisecarver, Daniel        | 1974 | <i>Three Essays in the Theory of Applied Welfare Economics</i>  |
| 132. Yelten, Sibel             | 2000 | <i>Real Effects of Movements in Nominal Exchange Rates</i>  |
| 133. Yopez G., Rigoberto Ariel | 1995 | <i>Pricing Policies for the Natural Gas Industry in Mexico</i>  |
| 134. Yoshino, Joe Akira        | 1993 | <i>Money and Banking Regulation: The Welfare Costs of Inflation</i>   |
| 135. Yuravlivker, David        | 1982 | <i>The Real Exchange Rate in Developing Countries</i>   |
| 136. Yver, Raul                | 1971 | <i>The Investment Behavior and the Supply Response of the Cattle Industry in Argentina</i>  |
| 137. Zablotsky, Edgardo        | 1992 | <i>The Economic Theory of Autocracy: A Public Good Approach to Military Coups d'Etat</i>  |
| 138. Zapata, Juan              | 1970 | <i>Externalities and Ground Water Use</i>   |
| 139. Zhan, Shiqiang            | 2000 | <i>Trends in Regional Disparities and Economic Growth in China</i>  |

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