

# **J. Mark Horridge**

## **Curriculum Vitae – March-2018**

### **Contact details:**

Centre of Policy Studies (CoPS)  
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**Date and place of birth:** 26th August 1956 at St. Andrews, Scotland

**Nationality:** Dual Australian/UK passports

### **Academic qualifications:**

Higher School Certificate, Victoria 1972.  
B.A. (Philosophy) ANU 1975.  
B.A. Hons (Social and Political Science) Cambridge 1978 (MA 1982).  
Graduate Diploma Economics, ANU 1982.  
Ph.D.(Econ), University of Melbourne, conferred December 1988., Thesis topic:  
Incorporating a longrun treatment of scale economies, into a general equilibrium model of the Australian economy.

### **Employment:**

Nov. 78 - Nov. 81: Cofounder and director of Fly Press (printing company), London.  
Feb. 82 - March 1984: Research Officer 1 with Industries Assistance Commission, Canberra. Located at IMPACT Research Centre, University of Melbourne.  
March 84 - Nov. 86: Senior Research Officer Grade 1, at IMPACT Research Centre.  
Nov. 86 - April 88: Principal Research Officer at IMPACT Research Centre.  
April 88 - Dec. 88: Research Fellow at IAESR, University of Melbourne.  
Jan. 89 - March 91: Senior Research Fellow at IAESR.  
March 91 – February 95: Senior Research Fellow (Level C) at CoPS (then at Monash).  
March 95 – March 2007 : Senior Research Fellow (Level D) at CoPS.  
March 2007 – Jan. 2014 : Professor and Director, GEMPACK Software, at CoPS.

In January 2014 the entire Centre of Policy Studies (including Horridge) moved to Victoria University in Melbourne.

Jan. 2014 – : Professor and Director, GEMPACK Software, at CoPS.

### **Research interests and experience**

Professor Horridge's main research interests are in computable general equilibrium (CGE) modelling and related software design.

In his Ph.D. thesis, he proposed and implemented a new approach to the computation of the long-run effects of changes in tariffs. His approach incorporated elements of imperfect competition and economies of scale into the general equilibrium framework.

Since completing his Ph.D. thesis in 1988, he has played a key role in many modelling projects including the creation of:

- a model of world food trade, distinguishing 30 regions and 8 commodity groupings;
- a short-run macro model of the Australian economy;
- a general equilibrium model of land use and transport demands within the Melbourne region;
- the MMRF regional model of Australia, distinguishing 8 states and around 40 sectors, together with extensions connecting industry outputs to CO2 emissions;
- a multi-period optimisation model of water supply planning, applied to both Sydney and Melbourne;
- TERM, a large regional general equilibrium model of Australia, distinguishing up to 57 regions and 144 sectors; and
- large general equilibrium models for Brazil, South Africa, P.R. China, Vietnam, Taiwan, Thailand, Indonesia, Philippines and several other foreign countries. These international projects included substantial training components, undertaken both at Melbourne and overseas. For example, a 2 week course for 30 people was conducted in Taipei.

In working on these projects, Professor Horridge has become adept at constructing databases for economic models. He has developed this expertise as an activity in its own right. He offers an annual short course in database construction. This course is attended by economists from many parts of the world.

Professor Horridge is well-known for his contributions to the GEMPACK model-solving software which is produced at CoPS. He has been the driving force behind the addition of Windows (GUI) interfaces which help economists use GEMPACK. He has authored several important GEMPACK programs, including:

- ViewHAR, a program for inspecting and modifying economic data;
- ViewSOL, a program for inspecting and comparing the results of CGE simulations; and
- TABmate, a text editor customized to aid GEMPACK users in the development of models.

Users of GTAP, the world's most widely applied CGE model, will be also be familiar with his RunGTAP and GTAPAgg programs which are used to run the GTAP model.

In addition Professor Horridge has participated in numerous smaller projects. In performing these duties he has demonstrated particular skills in computer programming, applied microeconomic analysis, econometric methods, data collection and interpretation, and report writing.

### **Activities**

- 1993-98: Constructed a series of large GE models of South Africa for the Industrial Development Corporation of South Africa (the funder) and trained staff there to do this work on their own. Model was used for policy analysis and to forecast industry growth prospects. Several visits to South Africa were made of between 10 and 40 days duration. Some training was delivered in Australia.
- 1995-: Supervised the theses of several Ph.D. students.
- 1995-2000: Built a large GE model of Indonesia for the PAUM Centre at Gadjah Mada University, Yogyakarta (the funder). Model is used for policy analysis (with a special focus on regional and income disparity) and to analyse the effects of the Asian crisis. Work took place during several visits to Yogyakarta and Djakarta. A partially overlapping group of Indonesians were funded by AusAid to receive 3 months training in CGE techniques at CoPS.
- 1994-7: Constructed a large GE model of China for the Academy of Social Science, Beijing (funder: AusAid). 3 Chinese academics received 2 months training in CGE techniques at CoPS,

and assisted in model construction. 2 visits to Beijing (2 weeks and 1 week) were also made. Model used for trade and environment policy analysis (with a special focus on regional outcomes). The Academy has since developed a forecasting capacity with this model.

- 1997-2005 Acted as instructor in annual GTAP training courses on multi-country CGE analysis which were held in Purdue and elsewhere by the Center for Global Trade Analysis, Purdue, Indiana.
- 1998-: Made a large GE model of Taiwan for a syndicate including the Environmental Protection Agency (main funder) and the Center for Sustainable Development, National Tsing Hua University. Model is used for environment policy analysis and emissions forecasting.
- 1994-: Participated and wrote instructional material for a series of training courses on single-country CGE modelling held annually for paying participants at Melbourne. Organized an extension to this course focussing particularly on the preparation of databases for CGE models. The main course has also been delivered in several other countries.
- 1997-: Wrote and updated RunGTAP, a computer program which assists the novice user to run and interpret simulations with the GTAP model of the world economy. Funder: GTAP project at Purdue.
- 1999: Constructed input-output databases for 6 Southern African nations, for later use in the GTAP model of world trade. Funder: DIFID UK.
- October 2000: Visited Thailand to conduct training course and consult on project organized by Thai Ministry of Finance and Chulalongkorn University.
- November 2000: Visited Taiwan to consult on water-related CGE model; funded by Taiwan Institute of Economic Research and Taiwan Water Bureau.
- December 2000: Visited Beijing to consult on value-added tax CGE model; funded by Chinese Academy of Social Science and Beijing Ministry of Finance.
- January 2001: Worked with Filipino team to build TARFCOM CGE model of Philippines. Funder: AusAid.
- February 2001: Visited Yogyakarta (Indonesia) to deliver CGE training course. Funder: AusAid.
- March 2001: Visited Yogyakarta (Indonesia) to deliver 2 week-long CGE training courses. Funders: Crawford Foundation (ACIAR) and AusAid.
- April 2001: Visited Manila to deliver 1 week-long CGE training course. Funder: AusAid.
- May 2001: Constructed CGE model of Jersey for OXERA consulting, Oxford UK.
- June 2001: Presented "Practical GE modelling" and "CGE data" courses at Melbourne.
- July 2001: Instructor at GTAP training course, Purdue.
- November 2001: Visited Jakarta for 3 weeks. Weeks 1 and 2: Constructed new version of Indorani CGE model using 2000 IO tables (Funder: AusAid). Week 3: Constructed BENNYGEM, a CGE model of Indonesia with imperfect competition and increasing returns to scale (Funder: IRIS/USAID).
- January-December 2002: Constructed [with Glyn Wittwer] a new general equilibrium database of the Australian economy for models used at the Centre of Policy Studies. The database distinguishes up to 57 regions and 144 sectors.
- January-December 2002: worked with Professor Joaquim Bento de Souza Ferreira Filho, USP, Brazil to build several multi-regional models of Brazil.
- June 2002: Presented "Practical GE modelling" and "CGE data" courses at Melbourne.
- June 2002: Presented paper at 5th Annual Conference on Global Economic Analysis, Taiwan.
- July 2002: Visited Albania for 2 weeks, to construct CGE model and data (Funder: USAID/GTAP).
- August 2002: Instructor at GTAP training course, Sheffield, UK.
- September 2002: Re-elected as a GTAP Fellow by Global Trade Analysis Project, Purdue.

- October-December 2002: worked with Professor J.V. Heerden, University of Pretoria to construct UPGEM CGE model of South Africa.
- November 2002: Visited Taiwan Institute of Economic Research for 1 week to model regional economic effects of water shortages [Funder: TIER].
- November 2002: Helped to present training course in Perth for multiregional MMRF model.
- January 2003: completed first working versions of TERM model: a 'bottom-up' regional CGE model of the Australian economy distinguishing up to 57 regions and 60 sectors.
- March 2003: worked with Dr Alain Liennard, CIRAD (Centre de coopération internationale en recherche agronomique pour le développement), Montpellier on 'Approach of the sustainable development of New Caledonia by a computable general equilibrium model' [Funders: French government and Academy of the Social Sciences in Australia].
- May 2003: Visited South African Department of Agriculture, Pretoria, to model effects of a SACU-USA free trade agreement using a dynamic version of GTAP [Funder: SADA].
- June 2003: Co-author of 3 papers at 6th Annual Conference on Global Economic Analysis, Schevingen, Netherlands.
- June 2003: Presented "Practical GE modelling" and "CGE data" courses at Melbourne.
- February 2004: Presented "Practical GE modelling" and "CGE data" courses at Melbourne.
- March 2004: Presented "International Trade Modelling" course in University of Pretoria, South Africa.
- March-May 2004: Worked in Brazil with Professor Joaquim Bento de Souza Ferreira Filho, Escola Superior de Agricultura "Luiz de Queiroz", Universidade de São Paulo, towards linking CGE and microsimulation models of Brazil.
- May 2004: Instructor at GTAP training course, Buenos Aires.
- May 2004: Presented "Agricultural CGE modelling" course at University of Western Cape, South Africa.
- June 2004: Presented "Practical GE modelling" and "CGE data" courses at Melbourne.
- December 2004: Was an invited speaker at conference entitled "Putting Development Back into the Doha Agenda: Poverty Impacts of a WTO Agreement", organized by WorldBank/LEI at the Hague.
- February 2005: Presented "Practical GE modelling" and "CGE data" courses at Melbourne.
- March 2005: Conducted week-long training session in GTAP model at UNCTAD India, New Delhi.
- January-May 2005: Preparation for final version of version 9 of GEMPACK software.
- January-May 2005: Prepared IO data for Pakistan and Nigeria for GTAP data base.
- June 2005: Presented "Agricultural CGE modelling" course at University of Pretoria, South Africa.
- June 2005: Presented paper at 8th Annual Conference on Global Economic Analysis, Germany.
- June 2005: Presented "Practical GE modelling" course at Lubeck, Germany.
- July 2005: Instructor at GTAP training course, Heraklion, Crete.
- July 2005: Visited South Africa to work with SA Department of Agriculture and Prof J.V. Heerden of Pretoria University.
- October 2005: Visited Taiwan to work on the TAIGEM-3 dynamic CGE model [TIER].
- December 2005: Completed initial version of SplitCom program to disaggregate sectors in a GTAP database.
- July-December 2006: Prepared IO data for Senegal and Vietnam for GTAP database.
- January 2006: Prepared material for 3 parallel training courses; in Brazil, Australia, and China.
- February 2006: Presented "Practical GE modelling" course at Sao Paulo, Brazil.

- May-October 2006: Worked with Glyn Wittwer to prepare new 56-region, 170 sector CGE database for Australia.
- June 2006: Attended and authored paper for 9th Annual Conference on Global Economic Analysis, Ethiopia.
- July 2006: Presented "Practical GE modelling" and "CGE data" courses at Melbourne.
- July 2006: Worked at Melbourne with 4 Indonesian academics from Padjajaran University, Bandung, to construct multiregional CGE model of the Indonesian and West Java economies, designed to study the national and regional (West Java) impacts of national and regional economic policies. Funding for this project came from AusAid under the Public Sector Linkages Program (PSLP).
- September 2006: 2-week visit with Glyn Wittwer to CEDS, the Center for Economics and Development Studies at Universitas Padjadjaran, Bandung, Java, to continue working with Indonesians. The model was unveiled at a day-long seminar on 14th September, attended by more than 100 academics and government officials. Simulations were presented showing the effects of: allowing rice imports; growing bio-diesel fuel; and changes in commodity prices.
- Jan-June 2007: Worked with Glyn Wittwer to prepare new 31-region, 160 sector SINOTERM CGE database and model for China.
- June 2007: Visited (2 weeks) Federal University of Minas Geras, Brazil, to work on regional effects of infrastructure projects (with James Giesecke).
- July 2007: Presented "Practical GE modelling" and "CGE data" courses at Melbourne.
- August 2007: Instructor at GTAP training course, Purdue University, Indiana.
- August 2007: Worked in Brazil with Professor Joaquim Bento de Souza Ferreira Filho, Escola Superior de Agricultura "Luiz de Queiroz", Universidade de São Paulo, simulating effect of freer agricultural trade on Brazilian poverty (World Bank project).
- September 2007: With James Giesecke, presented "Practical GE modelling" course in Prato, Italy.
- September 2007: Worked for one week at the VATT (Gov Institute for Economic Research) Helsinki, Finland, to improve their regional CGE model.
- September 2007: Worked for one week at the Ruralia Institute, Seinäjoki, Finland, to improve their regional CGE model.
- September 2007: Invited speaker at TransSust Conference on Climate Change and Sustainable Development, Chia Laguna, Sardinia.
- October 2007: Presented, with Philip Adams, "International Trade Modelling" course in University of Pretoria, South Africa.
- February 2008: Presented "CGE data" course at NZIER, Auckland, and worked with NZIER to build NZ CGE model.
- March 2008: Presented "CGE data" course at Hunan University, Changsha, China.
- April 2008: Worked with staff of the State Information Centre, Beijing towards improving Chinese CGE model.
- June 2008: Attended and co-authored 5 separate papers for 11th Annual Conference on Global Economic Analysis, Helsinki.
- July 2008: Presented "Practical GE modelling" and "CGE data" courses at Melbourne.
- August 2008: Instructor at GTAP training course, Purdue University, Indiana.
- November 2008: Invited speaker at "International Seminar on Territorial Planning in Brazil", Brasilia
- April 2009: Presented (with others) "Practical GE modelling" course in Beijing.
- June 2009: Attended and co-authored papers for 12th Annual Conference on Global Economic Analysis, Santiago, Chile.

- July 2009: Presented "Practical GE modelling" and "CGE data" courses at Melbourne.
- August 2009: Instructor at GTAP training course, Bangkok.
- October 2009: Elected to "at-large" membership of GTAP advisory board.
- April 2010: Presented "Practical GE modelling" and "CGE data" courses at Beijing.
- June 2010: Presented at IAEE (EnergyEcon) conference in Rio, Brazil; then at CGE symposium in Sao Paulo.
- August 2010: Instructor at GTAP training course, Purdue.
- Jan 2011: Presented TERM Regional CGE modelling course at Stellenbosch, South Africa.
- April 2011: Presented CGE Data Course in Beijing.
- June 2011: Attended and co-authored papers for 14th Annual Conference on Global Economic Analysis, Venice, Italy.
- August 2011: Presented TERM Regional CGE modelling course at Warsaw, Poland.
- Nov 2011: Visited Jakarta for 2 weeks to develop new TERM-like model of Indonesia, distinguishing 30 provinces and 179 sectors. [funder ADB]
- March 2012: Again visited Indonesia to work further on regional CGE model of Indonesia; delivered 1-week training course in Bandung. [funder ADB]
- June 2012: Attended and co-authored papers for 15th Annual Conference on Global Economic Analysis, Geneva.
- July 2012: Visited Taiwan Institute of Economic Research to install income accounting extension to their TAIGEM economic model.
- July 2012: Presented database course at Melbourne.
- August 2012: Attended and presented paper for IAAE (AgEcon) Triennial Conference at Foz do Iguacu, Brazil.
- November 2012: Presented TERM Regional CGE modelling course at Sydney.
- February 2013: Travelled to Jakarta with Monash Vice-chancellor's delegation to Indonesia; visited Bandung to work on AusAid project.
- July 2013: Attended and co-authored papers at 23rd Pacific Conference of The Regional Science Association International (RSAI), Bandung, Indonesia.
- August 2013: Instructor at GTAP training course, Istanbul.
- August 2013: Attended and presented paper at ERSA conference, Palermo, Italy.
- September 2013: Presented Dynamic TERM Regional CGE modelling course at Warsaw.
- June 2014: Attended and co-authored papers for GTAP Conference on Global Economic Analysis, Senegal.
- July 2014: Worked in Nepal on REDD CGE model
- August 2014: Presented Dynamic TERM Regional CGE modelling course at Bandung, Indonesia .
- August 2014: Worked in Bogor Indonesia with MOF people to improve energy CGE model.
- October 2014: Invited speaker at 12th Congress of the Brazilian Regional Science Association, CEDEPLAR, Belo Horizonte, Brazil
- March 2015: Invited speaker at Regional CGE modelling conference, Seinajoki, Finland
- May 2015: Week of consulting on Nepalese deforestation in Kathmandu; curtailed by earthquake.
- May 2015: Presented training course on Constructing a CGE database at Chinese Academy of Sciences, Beijing
- July 2015: Instructor at GTAP training course, Purdue University; followed by week of consulting at Inter-American Development Bank, Washington.

- August 2015: Presented training course on Constructing a CGE database at Victoria University, Melbourne
- November 2015: Travelled to Jakarta for 2 weeks consulting with Asian Development Bank
- December 2015: Assisted at CoPS training course in Beijing
- June 2016: Attended and co-authored papers for GTAP Conference on Global Economic Analysis, Washington DC; followed by week of consulting at Inter-American Development Bank, DC.
- July 2016: Visited 3 universities in Brazil: University of Sao Paulo (Piracicaba), Federal University of Minas Gerais (Belo Horizonte) and Federal University of Parana (Curitiba).
- August 2016: Instructor at GTAP training course, Purdue University.
- September 2016: Presented TERM Regional CGE course in Warsaw
- October 2016: Week of consulting with Asian Development Bank, Jakarta
- February 2017: Visit Kazakhstan to build CGE model for Asian Development Bank, Manila
- March 2017: Week of consulting with Inter-American Development Bank, DC.
- June 2017: : Presented training course on Chinese regional CGE model at UIBE, Beijing.
- July 2017: Presented paper at GTAP Conference on Global Economic Analysis, Purdue.
- September 2017: Presented training course on South African regional CGE model at Pretoria University, followed by consulting with Gauteng Treasury.
- October 2017: Presented training course on Kazakhstan CGE model at Astana.
- November 2017: Spent 2 weeks in Bandung, Indonesia preparing new version of IndoTerm CGE model.

### **Supervision of Ph.D. students**

Main supervisor of following Ph.D. students:

Michael Malakellis, graduated 1995, Topic: An intertemporal CGE Model of the Australian economy: the timing of tariff reform, Published Physica-Verlag 2000 as, Integrated Macro-Micro-Modelling under Rational Expectations

Farzana Naqvi, graduated 1996, Topic: Energy pricing and equity: a CGE analysis for Pakistan, Published by Ashgate 1997 as, Energy, economy and equity interactions in a CGE model for Pakistan

Huey-Lin Lee, graduated 2003, Topic: Forecasting Taiwanese CO2 emissions: A CGE analysis

Daniel Pambudi: graduated 2006, Topic: Regional CGE Modelling for Indonesia

Erwin Corong: graduated Nov 2014, Topic: CGE models of Trade and Poverty

### **Journal articles**

1. Horridge, J.M., B.R. Parmenter and P.Warr (1987), "Buying Australian", *Economic Record*, Vol. 63(182), pp. 231-46.
2. Horridge, J.M. (1988), "Tariffs in Australia: Theory, History, and Effects", *Australian Economic Review*, Vol. 2(88), pp. 61-73.
3. Horridge, J.M., D.Pearce, and A.Walker (1990), "World Agricultural Trade Reform: Implications for Australia", *Economic Record*, Vol. 66(194), pp. 235-248.
4. Dixon, P.B., J.M. Horridge and D.T. Johnson (1991), "ORANI Projections for the Australian Economy for 1989 to 2020 with special reference to the Land Freight Industry", *Empirical Economics*, Vol. 16(1), pp. 3-24.
5. Hertel, T.W., J.M. Horridge and K.R. Pearson (1992), "Mending the Family Tree: A Reconciliation of the Linearization and Levels Schools of AGE Modelling", *Economic Modelling*, Vol. 9, pp. 385-407.

6. Dixon, P.B., J.M. Horridge and D.T. Johnson (1992), "A General Equilibrium Analysis of a Major Project: The Multifunction Polis", *Australian Economic Papers*, Vol. 31(59), pp. 272-90.
7. Horridge, J.M., Parmenter B.R. and K.R. Pearson (1993), "ORANI-F: A General Equilibrium Model of the Australian Economy", *Economic and Financial Computing*, Vol. 3(2), pp. 71-140.
8. Horridge, J.M. (1994), "A Computable General Equilibrium Model of Urban Transport Demands", *Journal of Policy Modeling*, Vol. 16(4), pp. 427-457.
9. P.D. Adams, J.M. Horridge, B.R. Parmenter and X.G. Zhang (2000), "Long-run effects on China of APEC Trade Liberalization", *Pacific Economic Review*, Vol 5(1), pp. 15-47.
10. P.D. Adams, J.M. Horridge and B.R. Parmenter (2000), "Forecasts for Australian Regions using the MMRF-GREEN Model", *Australasian Journal of Regional Studies*, Vol. 6(3), pp. 293-322.
11. Harrison, W.J., J.M. Horridge and K.R. Pearson (2000), "Decomposing Simulation Results with respect to Exogenous Shocks", *Computational Economics*, Vol 15(3), pp. 227-249.
12. P.D. Adams, Horridge, J.M., Madden, J.R. and G. Wittwer (2002), "Drought, Regions, and the Australian Economy between 2001-02 and 2004-05", *Australian Bulletin of Labour*, Vol.28(4), pp. 231-246.
13. Harrison, W.J., J.M. Horridge, K.R. Pearson and G. Wittwer (2004), "A Practical Method for Explicitly Modeling Quotas and Other Complementarities", *Computational Economics*, June 2004, Vol. 23(4), pp. 325-341.
14. Horridge, J.M., Madden, J.R. and G. Wittwer (2005), "The impact of the 2002-03 drought on Australia", *Journal of Policy Modeling*, Vol 27/3, pp. 285-308.
15. Heerden, J.V., R. Gerlagh, J. Blignaut, J.M. Horridge, S. Hess, R. Mabugu and M. Mabugu (2006), "Searching for triple dividends in South Africa: Fighting CO2 pollution and poverty while promoting growth", *The Energy Journal*, Vol. 27(2), pp. 113-141.
16. Van Heerden, J, Blignaut, J, Mabugu, M, Gerlagh, R, Hess, S, Tol, RSJ, Horridge, M, Mabugu, R, De Wit, M & Letsoalo, T 2006, 'Redistributing environmental tax revenue to reduce poverty in South Africa : the cases of energy and water', *South African Journal of Economic and Management*, vol. 9, no. 4, pp. 537-552.
17. Horridge, J.M. and J.B. de Souza Ferreira Filho (2006), "Economic Integration, Poverty and Regional Inequality in Brazil", *Revista Brasileira de Economia* (Brazilian Economic Review), Vol. 60 (4). [http://www.scielo.br/scielo.php?script=sci\\_arttext&pid=S0034-71402006000400003](http://www.scielo.br/scielo.php?script=sci_arttext&pid=S0034-71402006000400003)
18. Horridge, J.M. and J.B. de Souza Ferreira Filho (2006), "The Doha Development Agenda: Distributional Impacts", *Review of Agricultural Economics*, Vol. 28(3), pp. 362-369.
19. Heerden, J.V., J. Blignaut, J.M. Horridge, (2008), "Integrated water and economic modelling of the impacts of water market instruments on the South African economy", *Ecological Economics*, accepted 12 November 2007, published 15 May 2008.
20. Horridge, J.M. and G. Wittwer (2008), "The economic impacts of a construction project, using SinoTERM, a multi-regional CGE model of China", *China Economic Review*, Vol.19, Issue 4, Dec. 2008, pp. 628-634.
21. Giesecke, J.A., J.M. Horridge and J.A. Scaramucci (2009), "Brazilian Structural Adjustment to Rapid Growth in Fuel Ethanol Demand", *Studies in Regional Science*, Vol. 39, no. 1, pp. 189-207 [www.jstage.jst.go.jp/browse/srs/39/1/\\_contents](http://www.jstage.jst.go.jp/browse/srs/39/1/_contents)
22. Horridge, J.M. and G. Wittwer (2009), "A multi-regional representation of China's agricultural sectors", *China Agricultural Economic Review*, [2009 Volume 1, Issue 4, pp. 420 - 434]
23. Narayanan, Badri, Thomas Hertel and J.M. Horridge (2010), "Disaggregated data and trade policy analysis: The value of linking partial and general equilibrium models", *Economic Modelling*, Volume 27, Issue 3, May 2010, pp. 755-766.
24. Horridge, J.M. and G. Wittwer (2010), "Bringing regional detail to a CGE model using census data", *Spatial Economic Analysis*, Volume 5 Issue 2, pp 229-255, Routledge [Jun 3, 2010]
25. Zawalinska, K., J. Giesecke, and M. Horridge (2013), "The consequences of LFA support: a multi-regional CGE analysis for Poland", *Agricultural and Food Science*, Vol. 22(2), pp. 272-287.



26. Horridge, J.M. and J.B. de Souza Ferreira Filho (2014), “Ethanol Expansion and Indirect Land Use Change in Brazil”, *Land Use Policy*, Volume 36, January 2014, Pages 595–604, Elsevier.
27. Joaquim Bento de Souza Ferreira Filho, Luis Ribera and Mark Horridge (2015), “Deforestation Control and Agricultural Supply in Brazil”, *American Journal of Agricultural Economics*, Volume 97, Issue 2, pp. 589-601, doi: 10.1093/ajae/aav004
28. Onil Banerjee, Martin Cicowiez, Mark Horridge, and Renato Vargas (2016), A Conceptual Framework for Integrated Economic–Environmental Modeling, *The Journal of Environment & Development* 1070496516658753, doi:10.1177/1070496516658753, <http://jed.sagepub.com/content/early/2016/07/19/1070496516658753.abstract>
29. Terciane Sabadini Carvalhoa, Edson Paulo Domingues and J. Mark Horridge (2017), Controlling deforestation in the Brazilian Amazon: Regional economic impacts and land-use change, *Land Use Policy* 64 (2017) 327–341, <http://dx.doi.org/10.1016/j.landusepol.2017.03.001>
30. Mark Horridge & Bartłomiej Rokicki (2017), The impact of European Union accession on regional income convergence within the Visegrad countries, *Regional Studies*, <http://dx.doi.org/10.1080/00343404.2017.1333593>

## Book

Horridge Mark, Rokicki Bartłomiej, Zawalińska Katarzyna (Aug 2017), *Regionalny model równowagi ogólnej TERM i przykłady jego zastosowania w Polsce*, [The TERM Regional CGE model and examples of its application in Poland] Wydawnictwo Uniwersytetu Warszawskiego [Warsaw University Press] ISBN: 9788323528814

## Book chapters

1. Dixon, P.B., J.M. Horridge and B.R. Parmenter (1987), “Forecasting Versus Policy Analysis with the ORANI Model”, Chapter 28 in H. Motamen (ed.), *Economic Modelling in the OECD Countries*, London, Chapman and Hall, pp. 653-666.
2. Dixon, P.B., J.M. Horridge and D.T. Johnson (1991), “ORANI Projections for the Australian Economy for 1989 to 2020 with special reference to the Land Freight Industry”, in J. Piggott and J. Whalley (eds.), *Applied General Equilibrium*, Physica-Verlag, Heidelberg, pp. 3-24.
3. Bandara, J. and J.M. Horridge (1998), South Africa and Vietnam chapters in R.A. McDougall, A. Elbehri, and T.P. Truong (eds.), *Global Trade, Assistance and Protection: The GTAP 4 Data Base*, Center for Global Trade Analysis, Purdue University, pp. 6 and pp. 5.
4. Horridge, J.M. and K. Abayasiri-Silva (1998), “Economies of Scale and Imperfect Competition in an Applied General Equilibrium Model of the Australian Economy”, in K. Arrow, K.Y. Ng and X. Yang (eds.) *Increasing Returns and Economic Analysis*, MacMillan, pp. 307-334.
5. Horridge, J.M. (2002), Southern Africa and Data Aggregation chapters in B.V. Dimaranan and R.A. McDougall (eds.) *Global Trade, Assistance and Protection: The GTAP 5 Data Base*, Center for Global Trade Analysis, Purdue University, pp. 21 and pp. 3.
6. Horridge, J.M. (2005), Albania and Data Aggregation chapters in B.V. Dimaranan and R.A. McDougall (eds.) *Global Trade, Assistance and Production: The GTAP 6 Data Base*, Center for Global Trade Analysis, Purdue University, pp. 8 and pp. 3.
7. Horridge, J.M. and J.B. de Souza Ferreira Filho (2005), “The Doha Round, Poverty and Regional Inequality in Brazil”, chapter in T.W. Hertel and L.A. Winter (eds.) *Poverty and the WTO: Impacts of the Doha Development Agenda*, Palgrave Macmillan, pp. 183-217.
8. Horridge, J.M. and Zhai, F (2005), “Shocking a Single-Country CGE Model with Export Prices and Quantities from a Global Model” annex to Chapter 3 in T.W. Hertel and L.A. Winter (eds.) *Poverty and the WTO: Impacts of the Doha Development Agenda*, Palgrave Macmillan, pp. 94-103.

9. Horridge, J.M. and J.B. de Souza Ferreira Filho (2010), Chapter 13 (Brazil) in K. Anderson, J. Cockburn, and W. Martin (eds), *Agricultural Price Distortions, Inequality, and Poverty*, World Bank Publications, ISBN: 978-0-8213-8184-7, 528 pp., March 2010.
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- Horridge, J.M., G.A. Meagher and P.D. Adams, "Applied General Equilibrium Modelling and Labour Market Forecasting", presented at the 3rd Annual Conference on Global Economic Analysis, Melbourne, Australia, 2000, pp. 19.
- Horridge, J.M., K.R. Pearson and T. Hertel, "AnalyseGE: Software Assisting Modellers in the Analysis of their Results", presented at the 3rd Annual Conference on Global Economic Analysis, Melbourne, Australia, 2000, pp. 17.
- Horridge, J.M., B.R. Parmenter and P.D. Adams, "Analysis of Greenhouse Policy using MMRF-GREEN", presented at the 3rd Annual Conference on Global Economic Analysis, Melbourne, Australia, 2000, pp. 19.
- Harrison, W.J. , J.M. Horridge, K.R. Pearson and Glyn Wittwer, "A Practical Method for Explicitly Modelling Quotas and Other Complementarities", presented at the 5th Annual Conference on Global Economic Analysis, Taipei, Taiwan, 2002, pp. 16.
- Horridge, J.M., John Madden and Glyn Wittwer, "Using a Highly Disaggregated Multi-regional Single-country Model to Analyse the Impacts of the 2002-03 Drought on Australia", presented at the 6th Annual Conference on Global Economic Analysis, The Hague, Netherlands, 2003, pp. 21.
- Horridge, J.M. and J.B. de Souza Ferreira-Filho, "The Free Trade Area of Americas and the Regional Development in Brazil", presented at the 6th Annual Conference on Global Economic Analysis, The Hague, Netherlands, 2003, pp. 15.
- Horridge, J.M. and J.B. de Souza Ferreira Filho, "Linking GTAP to a Single-country CGE Model", presented at the 6th Annual Conference on Global Economic Analysis, The Hague, Netherlands, 2003, pp. 20.
- Horridge, J.M., Y-H. Mai and F. Perkins, "Estimating the Effects of China's Accession to the WTO", presented at the 6th Annual Conference on Global Economic Analysis, The Hague, Netherlands, 2003, pp. 25.
- Horridge, J.M., L.Cretegny, K.R. Pearson and T. Rutherford, "Solving MPSGE Models Using GEMPACK", presented at the 7th Annual Conference on Global Economic Analysis, Washington DC, U.S.A., 2004, pp. 27.
- Horridge, J.M. and J.B. de Souza Ferreira Filho, "Economic Integration, Poverty and Regional Inequality in Brazil", presented at the 7th Annual Conference on Global Economic Analysis, Washington DC, U.S.A., 2004, pp. 43.

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- de Souza Ferreira Filho, J.B. and J.M. Horridge, "The Doha Round, Poverty and Regional Inequality in Brazil", delivered at Putting Development Back into the Doha Agenda: Poverty Impacts of a WTO Agreement, organized by WorldBank/LEI at the Hague, 2004, pp. 34.
- Harrison, J.W., J.M. Horridge and K.R. Pearson, "Using GEMPACK Subroutines in your Fortran Programs", presented at the 8th Annual Conference on Global Economic Analysis, Lubeck, Germany, 2005, pp. 29.
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- Giesecke, James, Jose Antonio Scaramucci and J.M. Horridge, "Brazilian structural adjustment to rapid growth in fuel ethanol demand", presented at the 11th Annual Conference on Global Economic Analysis, Helsinki, Finland, 2008, pp. 16.
- Horridge, J.M and David Laborde , "TASTE a program to adapt detailed trade and tariff data to GTAP-related purposes", presented at the 11th Annual Conference on Global Economic Analysis, Helsinki, Finland, 2008, pp. 27.
- Ferreira-Filho, Joaquim Bento and J.M. Horridge, "Would Agricultural Trade Liberalization Help The Poor Of Brazil?", presented at the 11th Annual Conference on Global Economic Analysis, Helsinki, Finland, 2008, pp. 36.
- de Souza Ferreira Filho, J.B. and J.M. Horridge, "The World Increase in Ethanol Demand and Poverty in Brazil", presented at the 12th Annual Conference on Global Economic Analysis, Santiago, Chile, 2009, pp. 27.
- Wittwer, Glyn and J.M. Horridge, "A multi-regional representation of China's agricultural sectors in SinoTERM ", presented at the 12th Annual Conference on Global Economic Analysis, Santiago, Chile, 2009, pp. 14.
- Aziz Elbehri, Aziz, McDougall, Robert and Mark Horridge, "A Global Model for Agriculture and Bioenergy: Application to Biofuel and Food Security in Peru and Tanzania", paper to the International Association of Agricultural Economists Conference, Beijing, China, August 16-22, 2009
- Ferreira-Filho, Joaquim Bento and Mark Horridge (2010), "Climate Change Impacts on Agriculture and Internal Migrations in Brazil", Presented at the 13th Annual Conference on Global Economic Analysis, Penang, Malaysia
- Ferreira-Filho, Joaquim Bento and Mark Horridge (2011), "Ethanol Expansion and the Indirect Land Use Change in Brazil" Presented at the 14th Annual Conference on Global Economic Analysis, Venice.
- Mark Horridge (2011), "Software tool for GTAP sub-region expansion with the specific example of the EU NUTS regions", Presented at the 14th Annual Conference on Global Economic Analysis, Venice.

- Horridge, Mark and Ken Pearson (2011), "Systematic Sensitivity Analysis (SSA) with Respect to Correlated Variations in Parameters and Shocks", presented at the 14th Annual Conference on Global Economic Analysis, Venice, Italy
- Ferreira-Filho, Joaquim Bento and Mark Horridge (2013), "Endogenous land use and supply, and food security in Brazil" Presented at the 16th Annual Conference on Global Economic Analysis, Geneva.
- Arief Anshory Yusuf, Ahmad Komarulzaman, EL Roos, Mark Horridge, (2013). Regional economic and emissions implication of oil palm development scenarios: A dynamic inter-regional CGE analysis for Indonesia. 23rd Pacific Conference of the Regional Science Association International (RSAI)/The 4th Indonesian Regional Science Association (IRSA) Institute, July
- Silva, Jonathan, Joaquim Bento Ferreira-Filho and Mark Horridge (2014), Greenhouse gas mitigation by agricultural intensification in Brazil. Presented at the 17th Annual Conference on Global Economic Analysis, Senegal.
- Silva, Jonathan, Joaquim Bento Ferreira-Filho and Mark Horridge (2015), Halting Deforestation in the Brazilian Amazon Region: Economic Impacts and Greenhouse Gas Emissions. Presented at the 18th Annual Conference on Global Economic Analysis, Melbourne.
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- Banerjee, Onil, Martin Cicowiez, Sebastian Dudek, Michel Masozera, Mark Horridge and Janaki Alavalapati (2017), Assessing Wealth and Land Use Impacts of Green Growth Strategies. Presented at the 20th Annual Conference on Global Economic Analysis, Purdue University.
- Ferreira-Filho, Joaquim Bento, and Mark Horridge (2017), Biome composition in deforestation deterrence and GHG emissions in Brazil. Presented at the 20th Annual Conference on Global Economic Analysis, Purdue University.

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### **CoPS/Impact Working Paper Series**

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## GTAP

Mark Horridge constructed a small world CGE model in 1988<sup>1</sup>. Since then, he has been an active participant of the GTAP project -- co-authoring around 35 GTAP conference papers, contributing 19 national IO tables from 4 continents<sup>2</sup> to the GTAP database, and teaching at many GTAP courses. He has constructed important software used by GTAP, such as the RunGTAP program used to run the model. Other programs include:

- GTAPAgg, which is widely used to aggregate GTAP data to manageable size prior to a simulation.
- TASTE (with David Laborde and others): Software to work with bilateral trade data for 5000 commodities and 200 countries including trade flows and both applied and bound tariff rates. This has proved very useful in adding additional commodity detail to GTAP.
- SPLITCOM and SPLITREG, programs which can split sectors and regions of the GTAP database. Underlying these is GTAPAdjust, a program to alter or edit GTAP data, while maintaining accounting restrictions.

He was awarded a GTAP Research Fellowship in 1999 "in recognition of his development of innovative new software and tools for implementation and analysis of GTAP data and simulations." [renewed 2002] and in June 2007 was one of the inaugural five members of the GTAP "Hall of Fame".

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<sup>1</sup> Horridge, M. and D. Pearce (1988). "Modeling the Effects on Australia of Interventions in World Agricultural Trade," IMPACT Preliminary Working Paper No. OP-65, University of Melbourne.

<sup>2</sup> Albania, Botswana, Dominican Republic, Indonesia, Iran, Jamaica, Kazakhstan, Malawi, Mozambique, Nigeria, Pakistan, Puerto Rico, Senegal, South Africa, Tanzania, Trinidad/Tobago, Vietnam, Zambia, Zimbabwe

Since October 2009 he has been one of 3 'members-at-large' of the GTAP Consortium or Advisory Board.

**Other**

Editorial Board *Journal of Economic Integration* , Seoul, Korea.

2003 Merit award from FEAST (Forum for European-Australian Science and Technology) for work with Dr Alain Liennard, CIRAD (Centre de coopération internationale en recherche agronomique pour le développement), Montpellier, on 'Approach of the sustainable development of New Caledonia by a computable general equilibrium model'.

Member, Monash University e-Research Steering Committee, 2005 -2009.