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Heinrich Bohlmann

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PROFILE

Prof. Heinrich Bohlmann holds a PhD in Economics from Monash University in Melbourne, Australia and an M.Com in Economics of Trade and Investment from the University of Pretoria. He is currently employed as an Associate Professor in the Department of Economics at the University of Pretoria where he specialises in economic policy research using dynamic computable general equilibrium (CGE) modelling methods. Prof. Bohlmann has also been contracted as an economic modelling consultant on various research and training projects to clients such as the World Bank, United Nations Development Programme, South Africa's National Treasury, Gauteng Provincial Government, Eskom, Airports Company South Africa and the Council for Scientific and Industrial Research. His academic and contract work has mainly focused on macroeconomic planning, energy and environmental policy, and labour market topics.

In addition to his research activities, Prof. Bohlmann teaches and coordinates undergraduate macroeconomics and postgraduate CGE modelling courses at the University of Pretoria, and professional short courses in CGE modelling via Enterprises (EUP). Previously, he has also lectured undergraduate microeconomics and development economics courses at the University of Pretoria, microeconomics at Fordham University, and assisted with microeconomics and sports economics courses at Monash University.

During his academic career, Prof. Bohlmann has presented papers at several local and international conferences, published research in renowned academic journals and served as a panel discussant at various workshops. He further supervises PhD students and postgraduate research essays, serves as a referee to numerous journals and acts as an external examiner for economics courses at other South African universities. Prof. Bohlmann is currently a member of and serving on the council of the Economic Society of South Africa (ESSA) and the South African Association for Energy Economics (SAAEE).

Since joining the Department of Economics in 2011, Prof. Bohlmann has been a key member of the team that maintains and develops the University of Pretoria General Equilibrium Model (UPGEM), implemented on the GEMPACK software platform. UPGEM has been widely used in academic and contract research projects and underpins the CGE training courses offered by the Department. In 2015, Prof. Bohlmann was awarded the inaugural Ken Pearson Scholarship by the Centre of Policy Studies and Center for Global Trade Analysis in recognition of his status as a young researcher contributing to the use and development of analytical software for CGE modelling.

EDUCATION

Doctor of Philosophy (PhD) Economics, Centre of Policy Studies, Monash University, 2011

PhD in Economics, with specialisation in CGE modelling, from the Centre of Policy Studies at Monash University in Melbourne, Australia with a thesis titled Labour and Migration Policy in South Africa, completed under the supervision of Prof. Peter B. Dixon. The Centre of Policy Studies moved to Victoria University in 2014.

Master of Commerce (M.Com) Economics of Trade and Investment, University of Pretoria, 2006

Bachelor of Commerce Honours (B.Com Hons) Economics, University of Pretoria, 2003

Certificate in International Trade Modelling with GTAP, Centre of Policy Studies, 2007

Certificate in Practical General Equilibrium Modelling, Centre of Policy Studies, 2006

Certificate in Entrepreneurship Skills, Potchefstroomse Universiteit vir Christelike Hoër Onderwys, 1998

ACADEMIC POSITIONS

Permanent Positions

Associate Professor – Department of Economics, University of Pretoria, 2020 –

Senior Lecturer – Department of Economics, University of Pretoria, 2014-2019

Lecturer – Department of Economics, University of Pretoria, 2005-2007; 2011-2013

Other Appointments

Visiting Research Fellow – Centre of Policy Studies, Victoria University, 2017; 2020

Visiting Professor – Department of Economics, Fordham University, 2013

Assistant Lecturer – Department of Economics, Monash University, 2007-2010

Researcher – African Institute for Economic Modelling, University of Pretoria, 2006-2007

TEACHING AND SUPERVISION

Academic Courses

Computable General Equilibrium Modelling (EKN819) – Lecturer and Coordinator, UP, 2012 –

Intermediate Macroeconomics (EKN214/234) – Lecturer and Coordinator, UP, 2012 –

Intermediate Microeconomics (EKN224) – Lecturer and Coordinator, UP, 2011-2013

Basic Microeconomics (ECON1200) – Lecturer, Fordham University, 2013

Intermediate Microeconomics (ECC2000) – Assistant Lecturer, Monash University, 2008-2010

Sports Economics (ECC2450) – Assistant Lecturer, Monash University, 2007-2010

Development Economics (EKN225) – Lecturer and Coordinator, UP, 2005-2006

Principles of Economics (EKN110/120) – Lecturer, UP, 2005-2006

Other Training Courses

Computable General Equilibrium Modelling with GEMPACK – Instructor and Course Leader, EUP, 2012 –

Consumer Choice, Utility Theory and Insurance for CT7 Economics – Instructor, Monash University, 2010

Completed PhD Supervision

Nicholas Kilimani – Graduated April 2016 (with Jan van Heerden)

Sifiso Ntombela – Graduated April 2019 (with Mmatlou Kalaba)

Francois Stoffberg – Graduated April 2020 (with Jan van Heerden)

Evelyn Thsehla – Submitted May 2020 (with Steve Koch)

SELECTED ACADEMIC RESEARCH

2020. National and Regional Impacts of an Increase in Value Added Tax: A CGE Analysis for South Africa (with Louise Roos, Philip Adams, Mark Horridge, Jan van Heerden, Kgatedi Kobe and Bokang Vumbukani-Lepolesa). *South African Journal of Economics*, 88:90-120.

2019. Greening the South African Economy Could Benefit the Food Sector: Evidence from a Carbon Tax Policy Assessment (with Sifiso Ntombela and Mmatlou Kalaba). *Environmental and Resource Economics*, 74:891-910.

2019. Regional Employment and Economic Growth Effects of South Africa's Transition to Low-Carbon Energy Supply Mix (with Mark Horridge, Roula Inglesi-Lotz, Louise Roos and Lardo Stander). *Energy Policy*, 128:830-837.

2018. Economy-Wide Effects of Drought Induced Productivity Losses (with Nicholas Kilimani, Jan van Heerden and Louise Roos). *Disaster Prevention and Management*, 27:636-648.

2016. The Economic and Environmental Effects of a Carbon Tax in South Africa: A Dynamic CGE Modelling Approach (with Jan van Heerden and James Blignaut). *South African Journal of Economic and Management Sciences*, 19:714-732.

2016. An Economy-Wide Evaluation of New Power Generation in South Africa: The Case of Medupi and Kusile (with Jessika Bohlmann, Roula Inglesi-Lotz and Jan van Heerden). *Energy Policy*, 97:450-460.

2016. Quantifying Shifts in Primary Factor Demand in the South African Economy (with Marthinus Breitenbach). *Development Southern Africa*, 33:286-296.

2015. The Impact of the 2014 Platinum Mining Strike in South Africa: An Economy-Wide Analysis (with Peter Dixon, Maureen Rimmer and Jan van Heerden). *Economic Modelling*, 51:403-411.

2015. Water Taxation and the Double Dividend Hypothesis (with Nicholas Kilimani and Jan van Heerden). *Water Resources and Economics*, 10:68-91.

SELECTED CONTRACT RESEARCH

2020. Economy-Wide Modelling of Various Agricultural Policy Scenarios. Report for United Nations Development Programme.

2019-2021. Airports Economic, Social and Environmental Impact Study (with Kim Adonis, Eleni Yitbarek, NKC African Economics and Delta BEC). Project for Airports Company South Africa via Enterprises UP.

2017-2019. Development of a Regional Computable General Equilibrium Model for South Africa (with Jan van Heerden, Mark Horridge, Philip Adams and Louise Roos). Project for Gauteng Provincial Treasury via Enterprises UP.

2017. The Economic Impact of Hosting the 2018 World Choir Games (with Elizabeth du Preez, Andrea Saayman, Jessika Bohlmann and Lardo Stander). Report for INTERKULTUR and University of Pretoria.

2017. Evaluating the Economic, Health and Social Impacts of the Proposed Liquor Amendment Bill (with Genesis Analytics). Report for NEDLAC.

2016. Sectoral Analysis and Scenarios for Economic Development in the Gauteng City-Region. Report for the Gauteng Office of the Premier.

2013-2016. Dynamic CGE Modelling of the Economic Impact of Cost Reflective Electricity Pricing and of Various Price Paths to achieve such Pricing over the Medium Term (with Jan van Heerden). Project for Eskom Research, Testing and Development via Enterprises UP.

2013-2014. The South African Carbon Tax: An Economic Analysis (with Jan van Heerden, James Blignaut, Anton Cartwright). Project for National Treasury and World Bank Group via FutureWorks!

2007. Higher Education Impact: Universities in the South African Economy (with Jan van Heerden, James Giesecke, Albert Makochekeanwa and Louise Roos). Publication for Higher Education South Africa.

2007. Integrated Social Development as the Accelerator of Shared Growth: Focus on Key Economic Issues No. 55 (with Charlotte du Toit, Rangan Gupta and Nick Schoeman). Publication for the Bureau for Economic and Policy Analysis, University of Pretoria.