Jeremy James Wakeford

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| Address:  Telephone:  Email:  Born:  Nationality:  Profession:  Languages: | Hunenbergerstrasse 3, Cham, 6330, Switzerland  +41 79 229 0297 (C) +41 41 530 2262 (H)  [jjwakeford@gmail.com](mailto:jjwakeford@gmail.com)  27 March 1974, Cape Town  South African (Identity Number 7403275236080)  Economist  English (excellent); Afrikaans (fair); French (basic) |  |

# Personal Profile

I am an economist specialising in sustainable development, energy, and inclusive green growth. I hold an MA degree in Economics from the University of Cape Town (1997), an MPhil in Economics from Cambridge University (1998. I obtained my PhD degree in Sustainable Development from Stellenbosch University, South Africa (2012), and continued researching green economy issues in 2013 and 2014 as a post-doctoral research fellow. Since 2012 I have held an appointment as an Extraordinary Senior Lecturer in the School of Public Leadership at Stellenbosch University. I was previously a full-time Lecturer (2000-2006) and Senior Lecturer (2007-2008) in the School of Economics at the University of Cape Town, where I taught post-graduate and undergraduate courses on Development Economics (focusing on Sustainable Development), Econometrics, Monetary Policy and the History of Economic Thought. I was also engaged in part-time consulting work for several years, mainly in the field of energy economics, sometimes in collaboration with the Sustainability Institute, South Africa. Since June 2015 I have been employed as a macroeconomist at Quantum Global Research Lab, a think tank based in Zug, Switzerland, whose mission is to generate innovative models and policy advice for inclusive and sustainable development in Africa and the world.

I am a highly principled and self-motivated person, and always strive to realise my full potential. I am dedicated to using my knowledge and abilities to contribute to societal development and environmental preservation. I work efficiently and with great attention to detail, am capable of independent and innovative thought, and have excellent writing, public speaking and interpersonal skills. I have been married for thirteen years and have one daughter, aged 12.

## Key Skills

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| Research | Sound research skills developed during postgraduate education and more than fifteen years in academia and think tanks; very strong ability to locate, analyze and synthesize bodies of literature. |
| Writing | Excellent quality of writing for various audiences including academic conferences and publications, consulting reports, government policy briefings, news media and for the general public. |
| Communication | Excellent verbal communication and presentation skills; ability to convey complex concepts in lay terms; effective use of data and graphics. |
| Quantitative analysis | Time series and macro-econometrics |
| Computer programs | Microsoft Word, Excel, PowerPoint, Outlook Express  EViews, Microfit (econometric packages) |

# Tertiary Education

University Degree Graduation Date

Stellenbosch University Doctor of Philosophy (Sustainable Development) December 2012

Cambridge University Master of Philosophy (Economics) November 1998

University of Cape Town Master of Arts (Economics) December 1997

University of Cape Town BA Honours (Economics) December 1995

University of Cape Town Bachelor of Arts December 1994

Awards & Scholarships

* South African Institute of Civil Engineers, Transportation Engineering Division, Best Academic Paper delivered in 2010
* University of Cape Town Research Scholarship, 1997
* Nedbank/Old Mutual Budget Essay Competition and Cambridge Scholarship winner, 1996
* UCT De Villiers Smuts Scholarship, 1996-7; Louis Weiner Scholarship, 1996-7
* Natale Labia prize for best Economics Honours student at UCT, 1995
* Centre for Science Development Scholarship, 1995 and 1996
* UCT Dean's Merit List, 1992 and 1994
* UCT Entrance Merit Scholarship, 1992

# Professional Affiliations

* *Senior Lecturer* *Extraordinary* in the **School of Public Leadership** at **Stellenbosch University**, South Africa.
* *Research Associate* of the **Sustainability Institute**, Stellenbosch, South Africa.
* *Associate Faculty Member* of **Duke Corporate Education**.
* *Chairperson* of the **Association for the Study of Peak Oil South Africa** (ASPO-SA), a non-profit company that was formed to conduct research into and advise stakeholders on the implications of the peaking and decline of world oil production (2009-2015).
* *Board Member* of **ASPO International**, an international network of scientists and researchers studying all aspects of global oil depletion.

# Employment Experience

In June 2015 I took up a position as Macroeconomist at Quantum Global Research Lab AG, a think tank based in Zug, Switzerland, whose mission is to generate innovative models and policy advice for inclusive and sustainable development in Africa and the world.

In 2012 I was appointed as an Extraordinary Senior Lecturer in the School of Public Leadership at Stellenbosch University. In this honorary position I taught a module in the MPhil degree in Sustainable Development called “Globalisation, governance and civil society” in 2013, 2014 and 2015. I also moderated the Research Methods module of the MPhil programme.

Between July 2008 and June 2015 I engaged periodically in part-time consulting work on a sole proprietor basis (see later section on Consulting Experience).

I was previously a full-time Lecturer (January 2000 to 2006) and then Senior Lecturer (January 2007 to June 2008) in the School of Economics at the University of Cape Town (UCT). I received a Merit Award in 2003 in recognition of the high quality of my work at UCT. My student evaluations were consistently very good to excellent, especially at the postgraduate level. I was recognized for using innovative learning methods and pioneered the use of online learning tools.

## Courses Taught at UCT

#### ECO539W Masters Econometrics (2003-2005)

#### ECO4016Z Honours Econometrics (1999-2006)

* ECO4051Z Honours Development Economics (2000-2006)
* ECO2008S Development Economics (2002-2008)
* ECO204S Macroeconomics: Monetary Policy (1999-2001)
* ECO3016F History of Economic Thought (2006-8)
* ECO418W Honours in Financial Analysis and Portfolio Management: Econometrics (2000-2001)

## Administration at UCT

While employed full-time at UCT I fulfilled a variety of administrative and management positions:

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| School of Economics | Graduate Convenor (2002-3)  Course Convenor, ECO3016F (2006-8)  Website Manager (2001-6)  Curriculum Advisor (2006-7)  Undergraduate Committee (2006-8) |
| Commerce Faculty | Computer Users’ Committee (Member: 2000-4; Chair: 2005-8)  Faculty Research Committee (2003) |
| Humanities Faculty | BSocSci PPE Committee (2006-7)  Faculty Examinations Committee (2006-7) |

## Professional Roles

* Cape Town branch secretary of the Economic Society of South Africa (2001-2006).
* Associate Editor of the *Basic Income Studies* journal based in the USA (2006-2007).
* External Examiner for University of KwaZulu-Natal’s graduate econometrics (2002-4).

# Consulting and Project Experience

Between July 2008 and June 2015 I worked part-time as a self-employed, independent consultant specialising in energy economics and sustainability. I have been engaged as a consultant by several government departments, private sector firms and non-governmental organizations.

## Projects

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| ***Client*** | ***Project Description*** | ***Period*** |
| UK Department for International Development | ***Mitigating Risks and Vulnerabilities in the Energy-Food-Water Nexus in Developing Countries***  I was project leader and principal author of this year-long research project contracted to the Sustainability Institute, South Africa in partnership with Quantum Global Research Lab. The report involved an analysis of nexus linkages and vulnerabilities at the global level and in three case study countries representing different socioecological regimes (agrarian, industrial and proto-sustainable) and put forward a broad range of policy strategies and technical measures for boosting resilience and sustainability. | 2015 |
| UK Department for International Development | ***Oil Shock Mitigation Strategies for Developing Countries***  I was project leader and principal author of this 10-month research project contracted to the Sustainability Institute, South Africa. The report analyzed the key socioeconomic vulnerabilities to and likely impact of oil price and supply shocks on developing countries, and recommended a broad set of mitigation strategies and policies for ameliorating these impacts. The areas covered include energy, transport, agriculture, macro-economy and socioeconomic welfare. | 2012-3 |
| Iliso Consulting | ***Oil Supply and Price Outlook for the World and South Africa***  I wrote a chapter as an input to an Iliso Consulting report for the Gauteng Provincial Government. | 2012 |
| South African National Department of Transport | ***Implications of Global Oil Depletion for the National Transport Master Plan***  I was a principle author of an extensive, four-part report for the National Transport Master Plan. My specific tasks included: background research on the nature and implications of global oil depletion; energy use in the South African economy and transport sector; quantitative and descriptive scenario development with respect to future liquid fuel supply trajectories; policy recommendations; and overall editing. | 2008 |
| The Presidency of South Africa | ***Energy Scenarios for 2019***  In collaboration with colleagues from the Association for the Study of Peak Oil South Africa, I was contracted to develop energy scenarios as inputs to the Presidency’s 2019 Scenario Planning exercise. We examined the complex interrelations between oil depletion, climate change and financial instability, developed two detailed descriptive scenarios, “Fragmentation” and “Renaissance”, which outlined two plausible paths South Africa might follow. We presented our report to a conference arranged by the Presidency in July 2007. | 2007 |
| National Treasury of South Africa | ***Key Labour Market Elasticities***  My role on this project was to gather data and perform econometric estimations of labour market elasticities, such as the price responsiveness of demand for labour. I also contributed one of the three major sections of the report, on the relationship between productivity and real wages at the national level. | 1999 |

## Presentations

I am an associate faculty member of Duke Corporate Education, which has consistently been ranked as the world’s top corporate education service provider by the Financial Times.

I have delivered presentations on energy and economic issues for the following clients in South Africa:

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| * PetroSA (South Africa’s national oil company) * South African Petroleum Industry Association * Sasol Ltd * Investec Bank * Noah Asset Management * Citadel Wealth Management | * FutureWorld * DHK Architects * Stuart Scott International * LTE Consulting * South African Cities Network |

## Media

* Between February 2012 and January 2015 I wrote a column entitled “Energy Matters” for *Engineering News* magazine, and I have been a frequent op-ed contributor to the *Mail & Guardian,* *Cape Times* and *Business Day* newspapers in South Africa.
* Between 2008 and 2010 I served as Consultant Editor of *Energy Forecast* magazine, published quarterly by Cape Media and distributed throughout Africa.
* I have been interviewed on several television stations (e.g. CNBC Africa, SABC, and M-Net’s Carte Blanche programme) and several radio stations on energy and economic issues.

## Non-Profit Organisations

* I was part of a research team based at the Sustainability Institute that wrote a chapter on “Greening the South African Growth Path” for the Development Bank of Southern Africa’s 2010 *Development Report*.
* I have written a research report on the topic of climate mitigation for the Irish Foundation for the Economics of Sustainability (Feasta) entitled “Potential impacts of a global cap and share scheme on South Africa.”
* I wrote a report entitled “Energy resource dependence and use in Southern Africa: Opportunities and challenges” for the Institute for Global Dialogue in 2006.
* I have conducted a workshop on reducing fossil fuel reliance for the SA Cities Network.
* I delivered a keynote presentation entitled “The Context for SA biofuels” at a KwaZulu-Natal Sustainable Energy Forum in Durban in July 2012.

# Research & Publications

My main areas of research are energy, sustainable development and the green economy. Previous fields of research include labour economics, monetary policy and the economics of education. I am the co-editor of a book on the green economy, the author of a book on energy and development, and co-author of a macroeconomics textbook. I have presented research papers at numerous conferences. My doctoral dissertation was entitled “Socio-economic implications of global oil depletion for South Africa: vulnerabilities, impacts and transition to sustainability.”

## Edited Books

Swilling, M., Musango, J.K. and Wakeford, J.J. (eds) (2016) *Greening the South African Economy*. Cape Town: UCT Press.

## Books

Wakeford, J.J. *(2013) Preparing for Peak Oil in South Africa: An Integrated Case Study*. New York: Springer. [http://dx.doi.org/10.1007/978-1-4614-9518-5](http://www.springer.com/alert/urltracking.do?id=L434dbbfMdebe11Sb0d8ff3)

Nattrass, N., Wakeford, J.J. and Muradzikwa, S. (2002) *Macroeconomics: Theory and Policy in South Africa, 3rd revised edition.* David Philip: Cape Town.

## Chapters in Books

Wakeford, J.J. (forthcoming in 2016) “The South African energy context,” in Glazewski, J. (ed) *Shale gas extraction or fracking in the Karoo: Critical bio-physical, ecological, philosophical, legal and governance perspectives*. Cape Town: UCT Press.

Swilling, M., Musango, J.K. and Wakeford, J.J. (2016) “Deepening the green economy discourse,” in Swilling, M., Kaviti Musango, J. and Wakeford, J.J. (eds) *Greening the South African Economy.* Cape Town: UCT Press.

Wakeford, J.J., Hasson, R. and Black, A. (2016) "Greening the Manufacturing Sector", in Swilling, M., Musango, J.K. and Wakeford, J.J. (eds) *Greening the South African Economy.* Cape Town: UCT Press.

Wakeford, J.J. (2016) "Transport Beyond Oil", in Swilling, M., Musango, J.K. and Wakeford, J.J. (eds) *Greening the South African Economy.* Cape Town: UCT Press.

Wakeford, J.J. and Urama, K.C. (2015) “Energy: The Master Resource”, in Bastos de Morais, J-C. (ed) *The Convergence of Nations: Why Africa’s Time is Now*. London: OMFIF Press.

Wakeford, J.J. (2014). "Transcending South Africa's Oil Dependency", in Khadiagala, G.M., Naidoo, P., Pillay, D. and Southall, R. (eds), *New South African Review 4: A Fragile Democracy – Twenty Years On*. Johannesburg: Wits University Press. pp. 74-90.

Swilling, M., Peter, C. and Wakeford, J.J. (2011) “Transcending Resource and Energy-Intensive Growth: Lessons from South Africa.” In M. Swilling and E. Annecke (eds), *Just Transitions: Explorations of Sustainability in an Unfair World* (Cape Town: UCT Press).

Wakeford, J.J. (2008) “Climate Change: Our Most Pressing Social and Economic Issue?” In R. Zipplies (ed.), *Bending the Curve: Your Guide to Tackling Climate Change in South Africa* (Africa Geographic).

## Journal Articles

Swilling, M., Musango, J.K. & Wakeford, J.J. (2015) “Developmental States and Sustainability Transitions: Prospects of a Just Transition in South Africa.” *Journal of Environmental Policy and Planning*. <http://dx.doi.org/10.1080/1523908X.2015.1107716>

Wakeford, J.J. & Swilling, M. (2014) "Implications of increasing world oil scarcity for national food security in South Africa." *Agrekon: Agricultural Economics Research, Policy and Practice in Southern Africa,* 53(4):68-91*.* <http://dx.doi.org/10.1080/03031853.2014.974626>

Wakeford, J.J. & Swilling, M. (2014) "Peak Oil as a Stimulus for a Green Economy Transition in South Africa: Alternative Liquid Fuel and Transport Options." *International Journal of African Renaissance Studies*, 9(2): 133-153. <http://dx.doi.org/10.1080/18186874.2014.987960>

Vanderschuren, M., Lane, T. and Wakeford, J.J. (2010) “Can South Africa Surmount Reduced Crude Oil Availability?” *Energy Policy*, 38, 6092–6100. <http://www.sciencedirect.com/science/article/pii/S0301421510004581>

Wakeford, J.J. (2004) “The Productivity-Wage Relationship in South Africa: An Empirical Investigation,” *Development Southern Africa*, 21(1), March 2004, pp. 109-132.

## Published Conference Proceedings

Wakeford, J.J. (2013). "Peak oil and the transition to a sustainable economy in South Africa", Conference Proceedings of the 19th International Sustainable Development Research Conference, Spier Wine Estate, Stellenbosch, 1-3 July 2013.

Wakeford, J.J. (2008). “Implications of global oil depletion for transport planning in South Africa.” Proceedings of the 27th annual Southern African Transport Conference, CSIR Convention Centre, Pretoria, 7-10 July 2008.

Wakeford, J.J. (2007). “The impact of oil price shocks on the South African macroeconomy: History and prospects.” Proceedings of the SARB Conference on Macroeconomic Policy Challenges for South Africa, South African Reserve Bank, Pretoria, 22-24 October 2006.

## Reports and Papers

Wakeford, J.J., Kelly, C. and Lagrange Mentz, S. (2015) “Mitigating Risks and Vulnerabilities in the Energy-Food-Water Nexus in Developing Countries.” Research report prepared for the United Kingdom Department for International Development, December 2015. Sustainability Institute, South Africa.

Wakeford, J.J. and de Wit, M. (2013) “Oil Shock Mitigation Strategies for Developing Countries.” Research report prepared for the United Kingdom Department for International Development, June 2013. Sustainability Institute, South Africa.

Peter, C., Swilling, M., du Plooy, P., de Wit, M., Wakeford, J., Lanz, J., Haysom, G., Kelly, C., Turton, A., Brent, A., Mason-Jones, K., Hansen, Y. & Cohen, B. (2010) “Greening the South African Growth Path: Challenges, Prospects and Trajectories.” Stellenbosch: Sustainability Institute.

Hendler, P., Lane, T., Ratcliffe, S., Vanderschuren, M. and Wakeford, J.J. (2008) “Implications of Global Oil Depletion for the National Transport Master Plan.” Report commissioned by the SA Department of Transport.

Wakeford, J.J. (2008) “Potential Impacts of a Global Cap and Share Scheme on South Africa.” Report Commissioned by the Foundation for the Economics of Sustainability (Feasta), Ireland.

Hendler, P., Holliday, J., Ratcliffe, S. and Wakeford, J.J. (2007) “Energy Scenarios for 2019: Fragmentation or Renaissance.” Paper commissioned by the Presidency of South Africa and delivered at the Scenarios 2019 Research Conference, Midrand, 11-12 June 2007.

Wakeford, J.J. (2007) “Energy Resource Dependence and Use in Southern Africa: Opportunities and Challenges.” Paper prepared for the Institute for Global Dialogue’sResearch Project on Natural Resources Dependence and Use in Southern Africa: Economic and Governance Implications. January 2007.

Wakeford, J.J. (2006) “Risks to Global Trade and Implications for South Africa’s Economy and Policy,” Development Policy Research Unit (DPRU) Working Paper No. 06/111, July 2006.

Wakeford, J.J. (2004) “Productivity, Wages and Employment in South Africa’s Manufacturing Sector, 1970-2002,” Development Policy Research Unit (DPRU) Working Paper No. 04/85, March 2004.

Erichsen, G. and Wakeford, J.J. (2001) “Racial Wage Discrimination in South Africa Before and After the First Democratic Election,” Development Policy Research Unit (DPRU) Working Paper No. 01/49, May 2001.

Fields, G., Leibbrandt, M. and Wakeford, J.J. (2000) “Key Labour Market Elasticities in South Africa,” Report Commissioned by the South African National Treasury.

# References

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