

Jonathan Pycroft

jonathan.pycroft@ext.ec.europa.eu
jonathan.pycroft@outlook.com
www.linkedin.com/in/jonathan-pycroft-9839756
Seville, Spain

I am a computational economist with 20 years of international experience, including 10 years with the European Commission. I believe that the appropriate use of data science improves public policy, and I am professionally committed to applying rigorous technical analysis to support public decision making. I am experienced in a wide array of models and topics, including climate change, development, and fiscal policy.

TECHNICAL SKILLS

Macroeconomic Models: EDGE-M3; CORTAX; GEM-E3; PEP; IFPRI

Integrated Assessment Model (IAM): PAGE09

Microsimulation Model: EUROMOD (co-creator of the EUROMOD-JRC Interface)

Software: GAMS; Python; Stata; @Risk; Orbis; LaTeX; SVN; GitHub

PROFESSIONAL SKILLS

Project Management: Modelling Team Leader for Fiscal Policy Unit, European Commission

Communication: Excellent oral and written presentation skills, technical and non-technical

Training: Organised and delivered high-quality training and workshops

Languages: English (mother tongue); Spanish (C1 - DELE Certification)

WORK EXPERIENCE

- 2020 – present **European Commission**
Computational Economist (Fiscal Policy Analysis Unit, JRC-Seville), Economic modelling in Corporate Tax Team
- 2020 – present **OpenRG**
Expert, Developer of open-source economic models
- 2020 – 2021 **FBK-IRVAPP (Italy)**
Task Leader, Distributional impact assessment study for EC (DG-EMPL)
- 2021 **European Commission (Spain)**
Consultant, Modelling corporate tax reforms and developing a dynamic macro-model
- 2014 – 2020 **European Commission (Spain)**
Modelling Team Leader (Fiscal Policy Analysis Unit, JRC-Seville), Economic modelling of fiscal policy: direct income taxes, corporate taxes, macroeconomy

- 2013 **Food and Agriculture Organisation, United Nations (Italy)**
Consultant, CGE model analysis of the drivers of deforestation in Zambia
- 2010 – 2013 **European Commission (Spain)**
Post-doctoral Researcher (Economics of Climate Change, Energy and Transport Unit, IPTS), Economic modelling of climate policies and potential damage from climate change
- 2009 – 2010 **Ministry of Finance and Development Planning (Lesotho)**
Consultant, Macroeconomic modeller for European Commission project
- 2009 **University of Oxford (UK)**
Lead author, Agriculture and Land chapter in *Zambia: Policies for Prosperity*
- 2009 **World Food Programme, United Nations (Ethiopia)**
Consultant, Literature review of food and fuel markets in Ethiopia
- 2009 **Overseas Development Institute (UK) & World Bank (USA)**
Consultant, Literature and data review on the impact of unpredictable foreign aid
- 2006 – 2007 **Ethiopian Development Research Institute (Ethiopia)**
Doctoral researcher, Modelling of Economic Partnership Agreements (EPAs)
- 2006 **University of Sussex (UK) for Ministry of Trade (Egypt)**
Tutor, Delivered intensive CGE modelling course for trade policy using GAMS
- 2005 – 2006 **University of Sussex (UK)**
Associate tutor, Teaching microeconomics & social statistics
- 2003 – 2004 **Ministry of Finance and National Planning (Zambia)**
Economist (funded by DFID, UK), Tax policy review and analysis for national budget
- 2001 – 2003 **Zambia Revenue Authority (Zambia)**
Senior Economist (ODI Fellowship Placement), Tax policy support for senior management

EDUCATION

- 2004 – 2008 **University of Sussex (UK)**
DPhil in Economics
Thesis: The Impact of Development Interventions in Ethiopia: Foreign Aid, Aid for Trade and Agricultural Technology
Supervisors: Prof Sherman Robinson, Dr Michael Gasiorek
Examiners: Prof Christopher Adam, Dr Julie Litchfield
- 2000 – 2001 **University of Oxford (UK)**
MSc in Economics for Development
- 1994 – 1997 **University of Warwick (UK)**
BSc in Economics

PUBLICATIONS

Peer-reviewed Journal Articles

- Álvarez-Martínez, María T, Salvador Barrios, Diego d'Andria, Maria Gesualdo, Gaëtan Nicodème, Jonathan Pycroft (2021) How large is the corporate tax base erosion and profit shifting? A general equilibrium approach, *Economic Systems Research*, Routledge, Available online 24 February. <https://doi.org/10.1080/09535314.2020.1865882>
- Álvarez-Martínez, María Teresa, Salvador Barrios, Diego d'Andria, Maria Gesualdo, Dimitrios Pontikakis and Jonathan Pycroft (2019) The economic consequences of corporate tax rates reductions in the EU: Evidence using a computable general equilibrium model, *The World Economy*, Wiley, 42(3):818-845. Available online 23 August 2018. doi.org/10.1111/twec.12703
- Pycroft, Jonathan, Jan Abrell and Juan-Carlos Ciscar (2016) Response to “Comment on ‘The Global Impacts of Extreme Sea-Level Rise: A Comprehensive Economic Assessment’” (Richard Tol, Robert J. Nicholls, Sally Brown, Jochen Hinkel, Athanasios T. Vafeidis, Tom Spencer and Mark Schuerch), *Environmental and Resource Economics*, 64:345-347, Springer (Netherlands), [dx.doi.org/10.1007/s10640-016-9998-1](https://doi.org/10.1007/s10640-016-9998-1)
- Pycroft, Jonathan, Jan Abrell and Juan-Carlos Ciscar (2016) The Global Impacts of Extreme Sea-Level Rise: A Comprehensive Economic Assessment, *Environmental and Resource Economics*, 64:225-253, Springer (Netherlands), published online January 2015. [dx.doi.org/10.1007/s10640-014-9866-9](https://doi.org/10.1007/s10640-014-9866-9)
- Pycroft, Jonathan, Lucia Vergano and Chris Hope (2014). The economic impact of extreme sea-level rise: Ice sheet vulnerability and the social cost of carbon dioxide. *Global Environmental Change*, 24:99-107, published online October 2013, ISSN 0959-3780, [dx.doi.org/10.1016/j.gloenvcha.2013.08.017](https://doi.org/10.1016/j.gloenvcha.2013.08.017).
- Maisonnave, Hélène, Jonathan Pycroft, Bert Saveyn and Juan Carlos Ciscar (2012). Does climate policy make the EU economy more resilient to oil price rises? A CGE analysis. *Energy Policy*. 47:172-179, August. [dx.doi.org/10.1016/j.enpol.2012.04.053](https://doi.org/10.1016/j.enpol.2012.04.053)
- Pycroft, Jonathan, Lucia Vergano, Chris Hope, Daniele Paci and Juan Carlos Ciscar (2011). A Tale of Tails: Uncertainty and the Social Cost of Carbon Dioxide. *Economics: The Open-Access, Open-Assessment E-Journal*, 5:2011-22. [dx.doi.org/10.5018/economics-ejournal.ja.2011-22](https://doi.org/10.5018/economics-ejournal.ja.2011-22)

Book Chapters

- Pycroft, Jonathan, Musepa Mulenga, Francis Ndilila and Sherman Robinson (2014) “Agriculture and Land” in Adam, Christopher, Paul Collier and Michael Gondwe (eds.), *Zambia: Policies for Prosperity*, Oxford University Press.
- Pycroft, Jonathan and the Tax Policy Unit, Ministry of Finance & National Planning, Zambia (2006) four chapters:
1. The SADC and COMESA Free Trade Areas and the Revenue Implications for Zambia
 2. An Assessment of Non-tax Revenues in Zambia
 3. Company Profit Tax Rates in Zambia
 4. The Taxation of the Tourism Sector in Zambia

in A. Harding, M. Mumbwatasai, M. Langmead & G. Baker (eds.) *Tax Policy Issues in Zambia*, Langmead & Baker/DFID, Lusaka, Zambia.

Selected Official Reports and Working Papers

d'Andria, Diego, Jason DeBacker, Richard W. Evans, Jonathan Pycroft, Wouter van der Wielen and Magdalena Zachlod-Jelec (2020) EDGE-M3: A Dynamic General Equilibrium Micro-Macro Model for the EU Member States, JRC Working Papers on Taxation & Structural Reforms 2020-03, Joint Research Centre (Seville), European Commission.

María T. Álvarez-Martínez, Salvador Barrios, Leon Bettendorf, Maria Gesualdo, Diego d'Andria, Simon Loretz, Dimitrios Pontikakis and Jonathan Pycroft (2016) A New Calibration for CORTAX: A computable general equilibrium model for simulating corporate tax reforms. JRC Working Papers on Taxation and Structural Reforms 2016-09, European Commission.

Álvarez-Martínez, María T., Salvador Barrios, Diego d'Andria, Maria Gesualdo, Dimitris Pontikakis and Jonathan Pycroft (2016) Modelling corporate tax reform in the EU: New calibration and simulations with the CORTAX model. DG TAXUD Taxation Papers No. 66, European Commission. Also published as JRC Working Papers on Taxation and Structural Reforms No.8, European Commission.

Background report for: European Commission Staff Working Document: Impact Assessment, 'Accompanying the document Proposals for a Council Directive on a Common Corporate Tax Base and a Common Consolidated Corporate Tax Base (CCCTB)' Strasbourg, SWD(2016) 341 final.

Barrios, Salvador, Serena Fatica and Jonathan Pycroft (2016) Property tax reform and the user cost of owner-occupied housing (with Salvador Barrios and Serena Fatica) in *Beyond the Austerity Dispute: New Priorities for Fiscal Policy: proceedings of the 17th Banca d'Italia Workshop on Public Finance*, Perugia, Italy, April 2015. Banca d'Italia.

Ciscar JC, Feyen L, Soria A, Lavalle C, Raes F, Perry M, Nemry F, Demirel H, Rozsai M, Dosio A, Donatelli M, Srivastava A, Fumagalli D, Niemeyer S, Shrestha S, Ciaian P, Himics M, Van Doorslaer B, Barrios S, Ibáñez N, Forzieri G, Rojas R, Bianchi A, Dowling P, Camia A, Libertà G, San Miguel J, de Rigo D, Caudullo G, Barredo J-I, Paci D, Pycroft J, Saveyn B, Van Regemorter D, Revesz T, Vandyck T, Vrontisi Z, Baranzelli C, Vandecasteele I, Batista e Silva F, Ibarreta D (2013). Climate Impacts in Europe. Results from the JRC PESETA II Project. *JRC Technical Report*; European Commission.

Capros P., D. Van Regemorter, L. Paroussos, P. Karkatsoulis (authors), C. Fragkiadakis, S. Tsani, I. Charalampidis, T. Revesz (contributing authors), M. Perry, J. Abrell, J. C. Ciscar, J. Pycroft, B. Saveyn (editors) (2013). GEM-E3 Model Documentation. *JRC Technical Report*; European Commission.

Barrios, Salvador, Jonathan Pycroft and Bert Saveyn (2013) "The Marginal Cost of Public funds in the EU: the case of Labour vs. Green Taxes", DG TAXUD Taxation Papers No. 35, European Commission.

This was the basis for: "Assessing the efficiency losses of tax increase in the EU: the case of labour and energy taxation" Box 3.2 in European Commission (2012) Tax reforms in EU Member States 2012: Tax policy challenges for economic growth and fiscal sustainability, European Economy 6/2012.

Pycroft, Jon and Pedro Martins (2009). How Unpredictable Aid Influences Service Delivery: Literature and Data Review, Desk Study Report, Final Version, Overseas Development Institute (for World Bank), October 2009.