BASTIAAN QUAST HTTP://QUA.ST/ | BASTIAAN.QUAST@GRADUATEINSTITUTE.CH

Department of International Economics | The Graduate Institute Geneva, Switzerland

Research Interests

Internet and Telecommunications adoption | Trade Analysis | Microeconomic estimators | Artificial Neural Networks (R & Python) | Blockchain (Bitcoin) | Complexity Modeling

Employment

2016-RESEARCHER | UNCTAD, GENEVA Gender impact evaluation of FTAs on Developing Countries (East African Community), using Computation General Equilibrium programming (GTAP) ECONOMIST | THE INTERNET SOCIETY, GENEVA 2015-16 Paper on exogenous increase in availability of local language content and internet adoption, presented at EEA 2016 | Conceputalised and executed report "Promoting Local Content in Africa" presented at Africa Internet Summit, leading to Google update advertising policy to help monetise African language content. 2013-15 RESEARCH CONSULTANT | COGINTA, GENEVA / GUINEA Directed a large scale representative baseline survey of Conakry (Guinea) population Conducted analysis for Canton of Geneva commissioned survey on police victimisation 2014-15 RESEARCH ASSISTANT | CENTRE ON CONFLICT, DEVELOPMENT AND PEACEBUILDING Collaborated with the "Institute Nationale du Development Humaine" (govt. Morocco) to direct a survey on behaviour and community relations, using a Regression Discontinuity Design identification strategy 2013-14 RESEARCH ASSISTANT | CENTRE FOR FINANCE AND DEVELOPMENT, GENEVA Developed survey design on remittances from Geneva | Redeveloped Centre's website 2013-14 TEACHING ASSISTANT | THE GRADUATE INSTITUTE, GENEVA Taught weekly Masters' Statistics workshops | Supervised Masters' Research Projects 2012 RESEARCH CONSULTANT | DUTCH DEVELOPMENT FINANCE INSTITUTE FMO, THE HAGUE Designed and directed survey on implementation of environmental, social, and governance best practices among FMO-invested hedge funds 2009 RESEARCH ASSISTANT | UNIVERSITY OF GRONINGEN, NETHERLANDS Data collection and analysis for Ministry of Economics Affairs commisioned survey

Education

2012-16	Jury: Richard Baldwin (president), Jean-Louis Arcand (supervisor) & Michael Kende Internet Adoption in Africa Trade & Global Value Chains Gender and Child Growth
2010–12	MASTER IN QUANTITATIVE ECONOMICS AND FINANCE UNIVERSITY OF ST. GALLEN Research for Dr. Piedro Veglio, Executive Director for Switzerland to The World Bank Microhydropower in remote dev. countries, at The World Bank (D.C.)
2006-10	BSC ECONOMICS UNIVERSITY OF GRONINGEN
2006-10	BA THEORETICAL PHILOSOPHY UNIVERSITY OF GRONINGEN

Selected Research Papers

2017	"Global Value Chains in LICs" CTEI Working Paper Series
2016	"Making the Next Billion Demand Access" CFD Working Paper G7 briefing notes
2015	"decompr: GVC decomposition in R" CTEI Working Paper Series
2014	"Cryptocurrencies and Inflation" CFD Working Paper Series

Conference Presentations

2016	"Making the Next Billion Demand Access: The Local-Content Effect of <code>google.co.za</code> in Setswana" <i>EEA Annual Conference</i> 2016
2013	"Urban Violence and Collective Efficacy in Karachi and Dhaka" <i>Pictet Foundation / Centre for Finance and Development Conference</i> 2013

Other Publications, Op Eds and Short Notes

2017 "Global Value Chains in Developing Economies" | *VoxEU*

https://cran.r-project.org/package=diagonals

Software Development

2016	rnn CRAN. First Recurrent Neural Network in the R language. https://cran.r-project.org/package=rnn multilayer Recurrent Neural Network (Deep Learning) > 8000 downloads
2015	decompr CRAN. Global Value Chain decomposition. https://cran.r-project.org/package=decompr Implementation of Wang-Wei-Zhu GVC decomposition algorithm > 10000 downloads Used for: World Bank GVC study, VoxEU GVCs eBook, Taiwan Bureau of Statistics China-trade study, etc.
2015	<pre>sigmoid CRAN. Sigmoid functions (logistic, Gompertz), inverses (logit), and SoftMax https://cran.r-project.org/package=sigmoid</pre>
2015	rddtools $CRAN$. Framework for Regression Discontinuity Design $ >6000$ downloads https://cran.r-project.org/package=rddtools
2014	gvc $CRAN$. Tools for Global Value Chain analysis $ >7000$ downloads https://cran.r-project.org/package=gvc
2014	diagonals CRAN. Tools for manipulating fat-diagonal matrices, e.g. block matrices

Other Publications

2017	Benefits of Local Content Hosting, The Internet Society
2016	Promoting Content in Africa, The Internet Society
2014	Diagnostic Local de Sécurité 2014 de Conakry (Guinée), Coginta
2013	Diagnostic Local de Sécurité 2013 de Genève (Suisse), Coginta

Affiliations

Ifo Expert Group (for Switzerland)

Centre for Finance and Development; The Graduate Institute, Geneva

Centre on Conflict, Development and Peacebuilding; The Graduate Institute, Geneva