BASTIAAN QUAST HTTP://QUA.ST/ | BASTIAAN.QUAST@ITU.INT

International Telecommunication Union | United Nations Geneva, Switzerland

Research Interests

Artificial Neural Networks (R & Python) | Machine Learning | Data Science | Microeconomic estimators | Quantum Machine Learning | Complexity Modeling

Employment

2017-	RESEARCHER ITU, GENEVA Machine learning researcher; Economic impact of AI; developing ITU strategic targets
2016-17	RESEARCHER UNCTAD, GENEVA Gender impact evaluation of FTAs on Developing Countries (East African Community), using Computation General Equilibrium programming (GTAP)
2015–16	ECONOMIST THE INTERNET SOCIETY, GENEVA 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 commissioned 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 google.co.za 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*

Software Development

2016	rnn <i>CRAN</i> . Recurrent Neural Network architectures in native R. multilayer Recurrent Neural Networks (Deep Learning) > 25000 downloads
2016	datasets.load CRAN. First Recurrent Neural Network in the R language. utilities and Graphical User Interface for loading datasets \parallel > 40000 downloads
2015	decompr <i>CRAN</i> . Global Value Chain decomposition. Implementation of Wang-Wei-Zhu GVC decomposition algorithm > 14000 downloads Used for: World Bank GVC study, VoxEU GVCs eBook, WTO Annual Report
2015	sigmoid CRAN. Sigmoid functions (logistic, Gompertz), inverses (logit), and SoftMax
2015	rddtools $CRAN$. Framework for Regression Discontinuity Design \mid > 11000 downloads
2014	gvc $CRAN$. Tools for Global Value Chain analysis \mid > 10000 downloads
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 (University of Munich, for Switzerland)

Centre for Finance and Development; The Graduate Institute, Geneva

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