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

Department of International Economics | The Graduate Institute Geneva, Switzerland

Research Interests

Internet and Telecommunications adoption | Microeconomic estimators | Artificial Neural Networks & time series (R & Python) | Distributed Systems e.g. Blockchain (Bitcoin) | Complexity Modeling

Employment

2015–16	ECONOMIST FELLOW THE INTERNET SOCIETY, GENEVA Paper on exogenous increase in availability of local language content and internet adoption, to be presented at EEA 2016 Conceputalised and executed report "Promoting Local Content in Africa" presented at Africa Internet Summit Conceptualised and executed report on Internet Adblocking Insentive Structures
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 on adherence of businesses to Corporate Social Responsibility code (code Tabaksblat)

Education

2012-16	Defence in September 2016
2010–12	MASTER IN QUANTITATIVE ECONOMCIS AND FINANCE UNIVERSITY OF ST. GALLEN Presented research on rate of renewable energy adoption in Nepal, at The World Bank HQ
2006-10	BSC ECONOMICS UNIVERSITY OF GRONINGEN
2006-10	BA THEORETICAL PHILOSOPHY UNIVERSITY OF GRONINGEN

Research Publications

2015	"decompr: GVC decomposition in R" CTEI Working Paper Series
2014	"Cryptocurrencies and Inflation" CFD Working Paper Series

Conference Publications

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" Pictet Foundation / Centre

"Urban Violence and Collective Efficacy in Karachi and Dhaka" | *Pictet Foundation / Centre for Finance and Development Conference* 2013

Software Publications

2016 rnn *CRAN*. First Recurrent Neural Network in the R language.2014 decompr *CRAN*. Global Value Chain decomposition.

https://cran.r-project.org/package=decompr | Implementation of Wang-Wei-Zhu GVC decomposition algorithm | > 6000 downloads | Used for: World Bank study, VoxEU eBook, Taiwan Bureau of Statistics study

 $\verb|https://cran.r-project.org/package=rnn| multilayer Recurrent Neural Network (Deep Learning)| < 1000 downloads in 2 months$

2015 decompr CRAN. Global Value Chain decomposition.

https://cran.r-project.org/package=decompr | Implementation of Wang-Wei-Zhu GVC decomposition algorithm | > 6000 downloads | Used for: World Bank GVC study, VoxEU GVCs eBook, Taiwan Bureau of Statistics China-trade study

sigmoid CRAN. Sigmoid functions (logistic, Gompertz), inverses (logit), and SoftMax https://cran.r-project.org/package=sigmoid

2015 rddtools *CRAN*. Framework and tools for Regression Discontinuity Design https://cran.r-project.org/package=rddtools

2015 learNN CRAN. Learn how Neural Networks work https://cran.r-project.org/package=learNN

2014 gvc *CRAN*. Tools for Global Value Chain analysis https://cran.r-project.org/package=gvc

2014 diagonals *CRAN*. Tools for manipulating fat-diagonal matrices, e.g. block matrices https://cran.r-project.org/package=diagonals

Other Publications

2014	Diagnostic Local de Sécurité 2014 de Conakry (Guinée) Coginta
2013	Diagnostic Local de Sécurité 2013 de Genève (Suisse) Coginta

Affiliations

Centre for Finance and Development; The Graduate Institute, Geneva

Centre on Trade and Economic Integration; The Graduate Institute, Geneva

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

The Internet Society