## 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**

2015–16	ECONOMIST FELLOW   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 on adherence of businesses to Corporate Social Responsibility code (code Tabaksblat)

## **Education**

2012–16	DOCTOR OF PHILOSOPHY IN DEVELOPMENT ECONOMICS   THE GRADUATE INSTITUTE Internet Adoption in Africa   Trade & Global Value Chains   Gender and Child Growth Jury: Richard Baldwin (president), Jean-Louis Arcand (supervisor) & Michael Kende
2010–12	MASTER IN QUANTITATIVE ECONOMCIS AND FINANCE   UNIVERSITY OF ST. GALLEN Studied under Piedro Veglio, former Executive Director for Switzerland to The World Bank Research on microhydropower renewable energy, at The World Bank
2006-10	BSC ECONOMICS   UNIVERSITY OF GRONINGEN
2006-10	BA THEORETICAL PHILOSOPHY   UNIVERSITY OF GRONINGEN

#### **Research Publications**

2016	"Global Value Chains in LICs"   forthcoming
2016	"Making the Next Billion Demand Access: google.co.za in Setswana"   CFD Working Paper Series
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
2012	"I Irban Violance and Callective Efficacy in Varachi and Dhake"   Dietet Foundation / Contra

"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. https://cran.r-project.org/package=rnn   multilayer Recurrent Neural Network (Deep Learning)   > 2500 downloads in 5 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
2015	<pre>sigmoid CRAN. Sigmoid functions (logistic, Gompertz), inverses (logit), and SoftMax https://cran.r-project.org/package=sigmoid</pre>
2015	rddtools CRAN. Framework and tools for Regression Discontinuity Design https://cran.r-project.org/package=rddtools
2015	<pre>learNN CRAN. Learn how Neural Networks work https://cran.r-project.org/package=learNN</pre>
2014	gvc CRAN. Tools for Global Value Chain analysis https://cran.r-project.org/package=gvc
2014	diagonals <i>CRAN</i> . Tools for manipulating fat-diagonal matrices, e.g. block matrices https://cran.r-project.org/package=diagonals

## **Other Publications**

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**

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