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 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 on adherence of businesses to Corporate Social Responsibility code (code Tabaksblat)

Education

2012–16   DOCTOR OF PHILOSOPHY IN DEVELOPMENT ECONOMICS | THE GRADUATE INSTITUTE
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" | *EEA Annual Conference 2016* |
| 2013 | "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

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

| 2015 | 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