

*Department of International Economics | The Graduate Institute  
Geneva, Switzerland*

## Employment

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- 2015–16    ECONOMIST FELLOW  
*The Internet Society, Geneva* | Paper on exogenous increase in availability of local language content and internet adoption (EEA conf. 2016). Report “Promoting Local Content in Africa”. Report on Internet Adblocking Incentive Structures.
- 2014–15    RESEARCH ASSISTANT  
*Centre on Conflict, Development and Peacebuilding, The Graduate Institute, Geneva.* | Direction a large scale representative baseline survey of Conakry (Guinea) population. Analysis of a survey for the Canton of Geneva. Collaborate with the “Institute Nationale du Développement Humain” (govt. Morocco) on a survey on behaviour and community relations, using a Regression Discontinuity Design Identification Strategy.
- 2013-14    RESEARCH ASSISTANT  
*Centre for Finance and Development, The Graduate Institute, Geneva* | Research Design. Re-design website.
- 2013-14    TEACHING ASSISTANT  
*The Graduate Institute, Geneva* | Teach weekly Statistics workshop to 30 master students.
- 2009       RESEARCH ASSISTANT  
*Department of Economics and Business, University of Groningen*

## Education

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- 2012–16    THE GRADUATE INSTITUTE  
*Doctor of Philosophy in Development Economics, Defence in September 2016*
- 2010–12    UNIVERSITY OF ST. GALLEN  
*Master in Quantitative Economics and Finance*
- 2006-10    UNIVERSITY OF GRONINGEN  
*Bachelor of Science in Economics*
- 2006-10    UNIVERSITY OF GRONINGEN  
*Bachelor of Arts in Theoretical Philosophy*

## Research Publications

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- 2015       “decompr: GVC decomposition in R” | *CTEI Working Paper Series*
- 2014       “Cryptocurrency and Inflation” | *CFD Working Paper Series*

## Conference Publications

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- 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

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2016 `rnn` CRAN. First Recurrent Neural Network in the R language.  
<https://cran.r-project.org/package=rnn> | multilayer Recurrent Neural Network (Deep Learning) | < 1000 downloads in 2 months

2016 `sigmoid` CRAN. several Sigmoid functions (logistic, Gompertz), inverses (logit), and Soft-Max  
<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 works.  
<https://cran.r-project.org/package=learNN>

2014 `decompr` CRAN. Global Value Chain decomposition.  
<https://cran.r-project.org/package=decompr> | Implementation of Wang-Wei-Zhu GVC decomposition algorithm | > 6000 downloads

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

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2014 Diagnostic Local de Sécurité 2014 de Conakry (Guinée) *Coginta*

2013 Diagnostic Local de Sécurité 2013 de Genève (Suisse) *Coginta*

## Research Interests

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Internet and Telecommunications Dissemination

Microeconomic Estimators

Artificial Neural Networks (for time series, using Python & R)

Distributed Systems: e.g. Blockchain (Bitcoin)

Complexity Modeling

## Affiliations

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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