

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

## Education

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

## Academic Positions

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- 2015–16 Economist Fellow; The Internet Society, Geneva  
(September 2015 – September 2016)
- 2014–15 Research Assistant; Centre on Conflict, Development and Peacebuilding, Geneva  
(February 2014 – September 2015)
- 2013–14 Research Assistant; Centre for Finance and Development, Geneva  
(September 2013 – February 2014)
- 2013 Teaching Assistant; The Graduate Institute, Geneva  
(September 2013 – January 2014)
- 2009 Research Assistant; University of Groningen  
(September 2009 – December 2009)

## Research Interests

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Complexity Modelling  
Artificial Neural Networks  
Microeconometrics  
Distributed Systems: e.g. Blockchain (Bitcoin)  
Internet Connectivity in Developing Countries

## Research Projects: Current and Planned

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Neural Networks and Complex Emergencies: Neighbourhood Security and Ebola in Guinea

Making the Next Billion Demand Access: The Local-Content Effect of Google.co.za in Setswana

Word Prediction using LSTM-RNN on mobile GPU

## 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 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>

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>

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

2014 wiod CRAN. Data package containing the World Input Output Database.  
<https://cran.r-project.org/package=wiod>

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*

## Affiliations

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The Internet Society

Centre for Finance and Development

Centre on Conflict, Development and Peacebuilding

Centre on Trade and Economic Integration