

# Curriculum Vitae

## Personal details

Marcos Cramer  
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Luxembourg

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## Scientific employment

- Since 11/2013: Research associate at the Interdisciplinary Centre for Security, Reliability and Trust of the University of Luxembourg
- 01/2013 - 10/2013: Scientific staff (*wissenschaftlicher Mitarbeiter*) at the Institute German Studies of the University of Duisburg-Essen
- 12/2012 - 03/2012: Scientific staff at the Mathematical Institute of the University of Bonn
- 10/2012 - 12/2012: Scientific assistant (*wissenschaftliche Hilfskraft*) at the Mathematical Institute of the University of Bonn

## Education

- 10/2013: Doctoral degree *Dr. rer. nat.* in Mathematics awarded by the University of Bonn for the thesis *Proof-checking mathematical texts in controlled natural language*
- 10/2009 - 03/2013: Doctoral student at the Mathematical Institute of the University of Bonn  
Supervisor: Prof. Dr. Peter Koepke
- 09/2008 - 08/2009: Qualifying year of the Bonn International Graduate School in Mathematics for qualifying as a doctoral student at the University of Bonn
- 10/2003 - 06/2007: Master of Mathematics and Philosophy at the University of Oxford  
Grade: *First* (best grade)
- 09/2000 - 07/2002: A-Levels at *Rugby School*, Rugby (United Kingdom)  
Grades: A (best grade) in all four subjects (mathematics, further mathematics, physics and classical Greek)

## Volunteer work and internships

- Since 10/2013: Director of the Section for the General Lexicon of the *Akademio de Esperanto*
- Since 04/2010: Member of the *Akademio de Esperanto*
- 12/2006 - 06/2009: Editor of the bimonthly journal *TEJO Tutmonde* of the World Esperanto Youth Organisation
- 10/2007 - 06/2008: Civil service at the *Eine-Welt-Verein Leipzig* (One World Association), Leipzig (Germany)

01/2003 - 09/2003: Peer educator on HIV/AIDS in Malangali (Tanzania) with *Student Partnership Worldwide*

## Publications

### As main author of peer-reviewed articles

- The Naproche system: Proof-checking mathematical texts in controlled natural language  
*Paper for a special issue of "Sprache und Datenverarbeitung - International Journal for Language Data Processing". In press.*
- A Logic of Trust for Reasoning about Delegation and Revocation  
*Joint paper with D.A. Ambrossio and P. Van Hertum for the ACM Symposium on Access Control Models and Technologies (SACMAT) 2015.*
- A Logical Approach to Restricting Access in Online Social Networks  
*Joint paper with J. Pang and Y. Zhang for the ACM Symposium on Access Control Models and Technologies (SACMAT) 2015.*
- Modelling implicit dynamic introduction of function symbols in mathematical texts  
*Paper for the Second Workshop on Natural Language and Computer Science (NLCS) 2014.*
- Modelling the usage of partial functions and undefined terms using presupposition theory  
*Paper for "Infinity, Computability and Metamathematics – Festschrift celebrating the 60th birthdays of Peter Koepke and Philip Welch", 2014.*
- Parsing and Disambiguation of Symbolic Mathematics in the Naproche System  
*Joint paper with P. Koepke and B. Schröder for the Conference on Intelligent Computer Mathematics (CICM) 2011.*
- Interpreting Plurals in the Naproche CNL  
*Joint paper with B. Schröder for the Controlled Natural Language (CNL) Workshop 2010.*
- Presupposition Projection and Accommodation in Mathematical Texts  
*Joint paper with D. Kühlwein and B. Schröder for the Conference on Natural Language Processing (KONVENS) 2010.*
- The Naproche Project – Controlled Natural Language Proof Checking of Mathematical Texts  
*Joint paper with B. Fisseni, P. Koepke, D. Kühlwein, B. Schröder and J. Veldman for the Controlled Natural Language (CNL) Workshop 2009.*

### As main author of other publications

- Proof-checking mathematical texts in controlled natural language  
*PhD thesis, University of Bonn, 2013.*
- Implicit dynamic function introduction and its connections to the foundations of mathematics  
*Paper for the conference "Philosophy, Mathematics, Linguistics: Aspects of Interaction" (PhML 2012).*
- Higher-Order Dynamic Predicate Logic  
*Extended abstract for the Conference on Computing Natural Reasoning (COCONAT) 2011.*
- Komputlingvosciencia kaj logika analizado de matematikaj tekstoj  
*Paper for the Konferenco por Apliko de Esperanto en Scienco kaj Tekniko (KAEST) 2010.*
- Mathematisch-logische Aspekte von Beweisrepräsentationsstrukturen  
*Thesis for qualifying as a doctoral student, 2009.*

### **As co-author of peer-reviewed articles**

- Premise Selection in the Naproche System  
*Joint paper with P. Koepke, D. Kühlwein, and B. Schröder for the International Joint Conference on Automated Reasoning (IJCAR) 2010.*
- The Naproche System  
*Joint paper with P. Koepke, D. Kühlwein, and B. Schröder for the Calculemus 2009.*

### **Languages**

Self-assessment according to the Common European Framework of Reference for Languages:

- German: C2 (native language)
- Esperanto: C2
- English: C2
- Spanish: C1 (second native language)
- Swahili: B2
- French: B1
- Russian: B1
- Luxembourgish: B1

### **Family**

08/2007: Marriage to Uljana Cramer née Tschistjakow

06/2009: Birth of daughter Milena

06/2012: Birth of son Pavel