

CURRICULUM VITAE

— PERSONAL DATA —

Name: Adam Koprowski
Nationality: Polish
Date & place of birth: 27.03.1980, Warsaw, Poland
Tel. number: +31 625 31 65 07
Email: Adam.Koprowski@gmail.com
Homepage: <http://adam-koprowski.net>
Postal address: Sumatrastraat 106G, 1094NK, Amsterdam, The Netherlands

— EDUCATION —

- PhD in Computer Science **Sep 2004 — Sep 2008**
[Eindhoven University of Technology](#)
Thesis subject: *Termination of Rewriting and Its Certification*
Supervisor: Hans Zantema, <http://www.win.tue.nl/~hzantema>
Research interests: formal verification, theorem proving, term rewriting, formal methods.
List of publications and other academic activities provided in separate sections.
- MSc in Computer Science (with honors) **Sep 2003—Jul 2004**
[Vrije Universiteit Amsterdam](#) (exchange program)
Thesis subject: *Coq formalization of the Higher-Order Recursive Path Ordering*
- MSc in Computer Science (with honors) **Sep 1999—Jul 2003**
[Warsaw University](#)
Receiving scholarship for one of the the highest average of grades among fellow students.

— WORK HISTORY —

- [Opa Tech Evangelist](#) at [MLstate](#) (<http://mlstate.com>) **Jun 2011—present**
Preparation of educational Opa materials (including the blog, <http://blog.opalang.org> and news articles such as <http://drdobbs.com/web-development/231901249>).
Opa advocacy, community management & support.
- [Research engineer](#) at [MLstate](#) (<http://mlstate.com>) **Feb 2009—Jun 2011**
Design & development of a new generation web development framework, Opa (<http://opalang.org>).
Important developments: parsing technology (parser generator, parsing integrated in Opa), numerous Opa libraries, formal verification of software using theorem proving technology.
Technologies/tools: OCaml, Opa, Coq
- [J2EE system designer/developer](#) at [Levia Sp. z o.o.](#) (*co-owner*) **Aug 2005—Aug 2009**
Main technological designer and leader of a team that developed an innovative auction web application, <http://youdo.pl>.
Technologies/tools: Java EE 5, EJB 3.0, JSF, JBoss AS, JBoss Seam, JBoss RichFaces, MyFaces, Facelets, PostgreSQL.
- [Postdoctoral researcher](#) at [Radboud University Nijmegen](#) (<http://ru.nl>) **Nov 2008—Jul 2009**
Main research topic: verification of Hybrid Systems in Coq.
Technologies/tools: OCaml, Coq
- [PhD student](#) at [Eindhoven University of Technology](#) (<http://tue.nl>) **Sep 2004—Sep 2008**
Main research topic: termination of rewriting and its certification.
Technologies/tools: OCaml, Coq

- **Software engineer** at **SMG/KRC Poland** (<http://smgkrc.pl>) **2002—2003**
Cooperation concerning several market surveys; development of applications for massive data processing and visualization.
Technologies/tools: C++ Builder.
- **Software engineer** at **QBS** (<http://qbs.com.pl>) **1999—2001**
Development of business software in close collaboration with customers.
Technologies/tools: Java, Borland Pascal, SQL.

— PUBLICATIONS —

Excerpt of referred publications; complete list at: <http://adam-koprowski.net/papers.html>.

Patents

1. *Adam Koprowski and Henri Binsztok*, **System and method for creating a parser generator and associated computer program**, PCT/EP2009/059115, 2009.

Journal articles

1. *Adam Koprowski and Henri Binsztok*, **TRX: A Formally Verified Parser Interpreter**, *Logical Methods in Computer Science (LMCS)*, 7(2), 2011.
2. *Frédéric Blanqui and Adam Koprowski*, **CoLoR: a Coq library on well-founded rewrite relations and its application to the automated verification of termination certificates**, *Mathematical Structures in Computer Science (MSCS)*, 21(4), pp. 827-859, 2011.
3. *Adam Koprowski and Johannes Waldmann*, **Max/Plus Tree Automata for Termination of Term Rewriting**, *Acta Cybernetica*, 19(1), 2009.
4. *Adam Koprowski*, **Coq Formalization of the Higher-Order Recursive Path Ordering**, *AAECC (Journal of Applicable Algebra in Engineering, Communication and Computing)*, 20(5-6), 2009.

Conference papers

“†” marks prestigious Rank 2 conferences according to the Computer Science Conference Rankings (<http://www3.ntu.edu.sg/home/assourav/crank.htm>).

1. *Herman Geuvers, Adam Koprowski, Dan Synek and Eelis van der Weegen*, **Automated Machine-Checked Hybrid System Safety Proofs**, ITP '10 (formerly TPHOL) .
2. †*Adam Koprowski and Henri Binsztok*, **TRX: A Formally Verified Parser Interpreter**, ESOP '10 .
3. †*Adam Koprowski and Johannes Waldmann*, **Arctic Termination ... Below Zero**, RTA '08 .
4. *Adam Koprowski and Hans Zantema*, **Certification of Proving Termination of Term Rewriting by Matrix Interpretations**, SOFSEM '08 .
5. †*Adam Koprowski and Aart Middeldorp*, **Predictive Labeling with Dependency Pairs using SAT**, CADE '07 .
6. *Adam Koprowski and Hans Zantema*, **Automation of Recursive Path Ordering for Infinite Labelled Rewrite Systems**, IJCAR '06 .
7. †*Adam Koprowski*, **TPA: Termination Proved Automatically**, RTA '06 .
8. †*Adam Koprowski*, **Certified Higher-Order Recursive Path Ordering**, RTA '06 .
9. *Adam Koprowski and Hans Zantema*, **Proving Liveness with Fairness using Rewriting**, FroCoS '05.

— HOBBIES, INTERESTS —

- marathon running.
- contemporary dance

— LANGUAGES —

- [Polish](#): native tongue
- [English](#): fluent (CAE, Certificate in Advanced English)
- [Dutch, Spanish, French](#): basic knowledge (\approx 1 year of courses)

— REFERENCES —

References on request.