

# CURRICULUM VITAE

## — PERSONAL DATA —

Name: Adam Koprowski  
Nationality: Polish  
Date & place of birth: 27.03.1980, Warsaw, Poland  
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## — 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 —

- **Research engineer** at [MLstate](#) (<http://mlstate.com>) Feb 2009—present  
Design & development of an integrated technology (language with persistency, compiler, run-time environment) for development of secure web applications.  
Formal verification of software using theorem proving technology.  
*Technologies/tools:* OCaml, 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 online auction and bidding 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://www.win.tue.nl/~akoprows/publications.html>.

### Patents

1. *Adam Koprowski and Henri Binsztok*, [System and method for creating a parser generator and associated computer program](#), PCT/EP2009/059115.

### Journal articles

1. *Adam Koprowski and Johannes Waldmann*, [Max/Plus Tree Automata for Termination of Term Rewriting](#), *Acta Cybernetica*, 19(1), 2009.
2. *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) , **To appear**.
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 —

- contemporary dance
- long distance running.

— 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.