

Curriculum Vitæ



Jiří Šimša

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Birth date: 21st August, 1983

Marital status: single

Education

- *PhD in Computer Science*, Computer Science Department, Carnegie Mellon University.
Area: Formal Methods.
Advisors: Randy Bryant and Garth Gibson.
Degree expected in June 2012.
- *Masters in Computer Science*, Informatics, Masaryk University.
Area: Parallel and Distributed Systems.
Advisor: Luboš Brim.
Thesis: Monitoring of Systems Behaviour.
Graduated magna cum laude in June 2006.
- *Bachelors in Economics*, Financial Entrepreneurship, Masaryk University.
Area: Financial Entrepreneurship.
Advisor: František Čámský.
Thesis: Analysis of blue chips factor portfolio at BCPP in relation to GDP, inflation and index PX
Degree expected in June 2008.
- *Summer school on Foundations of Security Analysis and Design*. September, 2004.
More information: <http://www.sti.uniurb.it/events/fosad04/>
- *Bachelors in Computer Science*, Informatics, Masaryk University.
Areas: Mathematical Informatics, Parallel and Distributed Systems, Computer Systems, Databases, Computer Graphics, Information Technologies Security.
Advisor: David Šafránek.
Thesis: Implementation of graphical editor describing coordination of concurrent systems
Graduated magna cum laude in June 2004.
- *European Summer School in Logic, Language and Information*. August, 2003.
More information: <http://www.logic.at/essli03/>

Awards and Scholarships

- *Fulbright Scholar Program*, 2007
Awardee of the International Fulbright Science and Technology award.
- *Faculty of Informatics, Masaryk University*, 2006
Dean's award for M. Sc. students, awarded for outstanding study results.
- *Masaryk University*, 2006
Rector's award for M. Sc. students, awarded for outstanding study and research results.
- *Faculty of Informatics, MU Brno*, June 2004
Dean's award for B. Sc. students, awarded for outstanding study results.

Work experience

- February 2003 – present
Laboratory of Parallel and Distributed Systems, Masaryk University – junior researcher
More information: <http://www.fi.muni.cz/paradise>
- Summer 2005
Software Development Europe, Czech Republic – software developer
More information: <http://www.sde.cz>
- September 2006 – May 2007
Grisoft, Czech Republic – partner development specialist
More information: <http://www.grisoft.cz>
- September 2007 – present
Parallel Data Lab, Carnegie Mellon University – graduate student
More information: <http://www.pdl.cmu.edu/>

Teaching

- *Masaryk University*, Spring 2007
Algorithm Design II, seminar tutor
- *Masaryk University*, Autumn 2006
Algorithmics for Hard Problems, seminar tutor
Automata and Grammars, seminar tutor
- *Masaryk University*, Autumn 2005
Automata and Grammars, seminar tutor
- *Masaryk University*, Spring 2005
Formal Languages and Automata I, seminar tutor

- *Masaryk University*, Autumn 2004
Computability and Complexity, seminar tutor
Automata and Grammars, seminar tutor

Academical stays

- *Aalborg University*, Autumn 2005 (3 months)

Professional skills

- Computer technologies – OO programming, databases
- Operating systems – Linux, MS-DOS, Windows 98 and Windows XP
- Analytical thinking, teamwork experience, self-reliance
- Excellent communication skills, responsibility, flexibility
- Driving license

Language skills

- *Czech* – native speaker
- *English* – excellent knowledge

Selected publications

- Luboš Brim, Ivana Černá, Pavel Moravec, Jiří Šimša
How to Order Vertices for Distributed LTL Model-Checking Based on Accepting Predecessors
Electronic Notes in Computer Science Volume 135 No. 2, Elsevier 2006
- Luboš Brim, Ivana Černá, Pavel Moravec, Jiří Šimša
Distributed Partial Order Reduction of State Spaces
Electronic Notes in Computer Science Volume 128 No. 3, Elsevier 2005
- David Šafránek, Jiří Šimša
VCD: A Visual Formalism for Specification of Heterogeneous Software Architectures
Lecture Notes in Computer Science Volume 3381, Springer 2005
- Luboš Brim, Ivana Černá, Pavel Moravec, Jiří Šimša
Accepting Predecessors are Better than Back Edges in Distributed LTL Model-Checking
Lecture Notes in Computer Science Volume 3312, Springer 2004

Conferences and Workshops

- *FMICS, Bonn, Germany* – workshop, August 2006
More information: <http://fmics06.informatik.tu-muenchen.de/>

- *CONCUR, Bonn, Germany* – conference, August 2006
More information: <http://depend.cs.uni-sb.de/concur06>
- *PDMC, Bonn, Germany* – workshop, August 2006
More information: <http://pdmc.informatik.tu-muenchen.de/PDMC06/>
- *FMCAD, Austin, Texas, USA* – conference, November 2004
More information: <http://www.cs.utexas.edu/users/hunt/FMCAD/2004/>
- *CONCUR, London, England* – conference, September 2004
More information: <http://www.doc.ic.ac.uk/concur2004/>
- *PDMC, London, England* – workshop, September 2004
More information: <http://www.fi.muni.cz/~brim/PDMC04/>

Pasttime activities

- *Professional* – Formal verification, Modern economic theories
- *Other* – Cross country, Mountain bike, Soccer, Chess, Computer games

On October 9, 2007 in Pittsburgh, USA

Jiří Šimša