CV - Jonathan Cederberg

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Current Occupation

Since Aug 2007 I have been a PhD Student in Computer Science at the Dep. of IT, Uppsala University (UU), specializing in Formal Methods.

Education

Fall 1998 – Summer 1999	High school exchange student, Nottingham, England. A-levels in Mathematics, General Studies and Chemistry.
Fall 2001 – Summer 2007	MSc in Information Technology Engineering, UU. Focus on Mathematics and Theoretical Computer Science.

Languages

Swedish (native), English (fluent), French and Italian (conversational).

Work Experience

Fall 2002	Lecturer, introductory class in Mathematics, UU
Fall 2006	Teaching Assistant and Assisting Lecturer in Algorithm Theory and Basic Functional Programming, UU
Spring 2007	Master Thesis at Ericsson Research in Kista, Stockholm Developed tool for internal use.

Publications (Peer reviewed)

- P. A. Abdulla, A. Bouajjani, J. Cederberg, F. Haziza, and A. Rezine. *Monotonic Abstraction for Programs with Dynamic Memory Heaps.* Published in Proc. of the 20th Int. Conf. on Computer Aided Verication, 2008, presented by me at CAV'08 in Princeton, USA.

- P. A. Abdulla, M. Atto, J. Cederberg, and R. Ji. *Automated Analysis of Data-Dependent Programs with Dynamic Memory.* Published in Proc. of the 7th International Symposium on Automated Technology

for Verification and Analysis, 2009, presented by me at ATVA'09 in Macao, China.

- P. A. Abdulla, J. Cederberg, and L. Kaati. *Analyzing the Security in the GSM Radio Network Using Attack Jungles.* Published in Proc. of the 4th International Symposium on Leveraging Applications, 2010, presented by me at ISoLA'10 in Heraklion, Greece.

Patents

- WO/2009/047113: *APPARATUS FOR RECONFIGURATION OF A TECHNICAL SYSTEM BASED ON SECURITY ANALYSIS AND A CORRESPONDING TECHNICAL DECISION SUPPORT SYSTEM AND COMPUTER PROGRAM PRODUCT*, main inventor. Result of my Masters Thesis at Ericsson AB.

Invited talks

- *Automated Analysis of Data-Dependent Programs with Dynamic Memory.* Presentation of ongoing and future research at the 6th Doctoral Workshop on Mathematical and Engineering Methods in Computer Science, 2010, Mikulov, Czech Republic.

Programming Languages

Developing experience with Java, Python, ML dialects. Limited experience with C, C++, PHP, Ruby, Lisp, Erlang, Haskell.

Preferred Tools and Methodologies

- Operating System: OS X
- Programming Environment: Eclipse
- Text production: LaTeX
- Software Development Approach: Agile Methods
- Time Management Process: GTD

References

Provided upon request.