

Ulrik M. Nyman - Curriculum Vitæ

Personal Information

Ulrik Mathias Nyman
Doravej 45 st. th.
9000 Aalborg
Born: 2nd of December 1978
Married to Tina, Father of Mads (4 years) and
Ida Mai (1 year)

Phone: 40 89 21 56
Email: ulrik@cs.aau.dk

Education

- 2008** Recieved a Ph.d. degree in computer science form Aalborg Univesity.
- 2004 - 2007** Ph.d. student at Aalborg Universitet affiliated with CISS (Center for Indlejrede Software Systemer).
- 1998 - 2003** Master of Computer Science at Aalborg Universitet (cand.scient.dat.)
- 1998** Served my national service (værnepligt) at the civil defense forces in Herning.
- 1994 - 1997** Gymnasiet, mathematical line, Amtgymnasiet i Odder

Teaching Experience

- Spring 2010: Teaching:** Test and Verification, Programming in Java,
Supervision: of two Master theses.
- Fall 2009: Teaching:** Introductory course on C programming, EDB-intro course.
Supervision: of 4 SSE3 students and one sp1 group.
- Spring 2009: Teaching:** Test and Verification, Programming in Java.
- Fall 2008: Teaching:** Introductory course on C programming, EDB-intro course.
- Spring 2008: Teaching:** Programming in Java.
Supervision: of two P2 groups at the Basis education.
- Fall 2007: Supervision** of four P0 groups and three P1 groups at the Basis education.
- Spring 2007: Teaching:** Gave two lectures as part of the Dat9 course TOV.
- Fall 2006: Teaching:** Teaching Assistant in Distributed Systems and Complexity and Computability.
- Spring 2006: Teaching:** Gave two lectures as part of the Dat9 course TOV,
Supervision of four Dat4 groups and one Dat2 group.
- Spring 2005: Teaching:** Gave two lectures as part of the Dat9 course TOV.
Supervision of five Dat4 groups and two Dat2 group.
- Fall 2004: Teaching:** Teaching Assistant in Complexity and Computability.
- 2000 - 2003 - 6 semesters** Teaching Assistant in the following courses: Object Orienteret Analyse & Design, Complexity and Computability, Syntax and Semantics and Java Programming.

Work Experience

- 2009 - 2010** Assistant Professor at the Department of Computer Science, Aalborg University
- 2007 - 2009** Scientific Assistant at the Department of Computer Science, Aalborg University
- 2004 - 2007** Ph.d. student at Aalborg Universitet affiliated with CISS (Center for Indlejrede Software Systemer)
- 2003 - 2004** Research assistant. For CISS on Uppaal and visualSTATE.
- Sommer 2002 - 3 weeks** Aalborg University, C++ programming.
- Sommer 2001 - 4 weeks** Bite Aps, PHP programming.
- Sommer 2000 - 3 weeks** Studenternet, PHP programming (www.studenternet.auc.dk)
- Sommer 1999 - 3 weeks** Studenternet, PHP programming (www.studenternet.auc.dk)

Language Skills

Danish as mother tongue. English fluently (written and verbal). Swedish, good verbal skills.

Workshop Organization

- Copenhagen Meeting on Modal Transition Systems** Held September 20th, 2007 at ITU Copenhagen. Organizer.
- FIT2008** Foundations of Interface Technologies 2008, Held April 5th 2008 at ETAPS 2008 in Budapest. Organizer.

Journal Contributions

- 1 Modal and Mixed Specifications: Key Decision Problems and their Complexities*, Antonik, Adam ; Huth, Michael ; Larsen, Kim Guldstrand ; Nyman, Ulrik ; Wasowski, Andrzej. **Accepted** for Mathematical Structures in Computer Science, Special Issue on EXPRESS 2008.
- 2 Modeling software product lines using color-blind transition systems*, Larsen, Kim Guldstrand ; Nyman, Ulrik ; Wasowski, Andrzej. In: Software Tools for Technology Transfer Volume 9 Number 5-6. Pages 471-487. October 2007.

Refereed Conference Papers

- 3 Timed I/O Automata: A Complete Specification Theory for Real-time Systems*, David, Alexandre ; Larsen, Kim Guldstrand ; Legay, Axel ; Nyman, Ulrik ; Wasowski, Andrzej. **Accepted** for publication at HSCC 2010 in Stockholm.
- 4 Complexity of Decision Problems for Mixed and Modal Specifications*, Antonik, Adam ; Huth, Michael ; Larsen, Kim Guldstrand ; Nyman, Ulrik ; Wasowski, Andrzej. In: Foundations of Software Science and Computational Structures : 11th International Conference, FOSSACS 2008. Springer Verlag, 2008. p. 112-126 (Lecture Notes in Computer Science; 4962).
- 5 On Modal Refinement and Consistency*, Larsen, Kim Guldstrand ; Nyman, Ulrik ; Wasowski, Andrzej. In: CONCUR 2007 - Concurrency Theory. Berlin / Heidelberg : Springer, 2007. p. 105-119 (Lecture Notes in Computer Science; 4703).

- 6 *Modal I/O Automata for Interface and Product Line Theories*, Larsen, Kim Guldstrand ; Nyman, Ulrik ; Wasowski, Andrzej. In: Programming Languages and Systems : 16th European Symposium on Programming, ESOP 2007. Berlin : Springer, 2007. p. 64-79 (Lecture Notes in Computer Science; 4421).
- 7 *Interface Input/Output Automata*, Larsen, Kim Guldstrand ; Nyman, Ulrik ; Wasowski, Andrzej. In: FM 2006: Formal Methods : 14th International Symposium on Formal Methods, Hamilton, Canada, August 21-27, 2006 Proceedings. Berlin : Springer, 2006. p. 82-97 (Lecture Notes in Computer Science; 4085).
- 8 *Color-blind Specifications for Transformations of Reactive Synchronous Programs*, Larsen, Kim Guldstrand ; Larsen, Ulrik ; Wasowski, Andrzej. In: Fundamental Approaches to Software Engineering: 8th International Conference, FASE 2005, Proceedings. Berlin / Heidelberg : Springer, 2005. p. 160-174(Lecture Notes in Computer Science; 3442).

Refereed Workshop Papers

- 9 *EXPTIME-complete Decision Problems for Modal and Mixed Specifications*, Antonik, Adam ; Huth, Michael ; Larsen, Kim Guldstrand ; Nyman, Ulrik ; Wasowski, Andrzej. In: Electronic Notes in Theoretical Computer Science (Proceedings of the 15th Workshop on Expressiveness in Concurrency (EXPRESS 2008))
- 10 *Interface Input/Output Automata : Splitting Assumptions from Guarantees*, Larsen, Kim Guldstrand ; Nyman, Ulrik ; Wasowski, Andrzej. In: Electronic Notes in Theoretical Computer Science (Foundations of Interface Technologies, 2005). To appear.
- 11 *Color-blind Behavioral Specifications for Transformations of Reactive Synchronous Programs*, Larsen, Ulrik ; Larsen, Kim Guldstrand ; Wasowski, Andrzej. In: Proceedings of the 16th Nordic Workshop on Programming Theory : Technical report. Department of Information Technology, Uppsala University : Uppsala Sweden, 2004. **Extended Abstract**

Technical Reports

- 12 *An Interface Theory for Input/Output Automata*, Larsen, Kim Guldstrand ; Nyman, Ulrik ; Wasowski, Andrzej. Århus : BRICS, 2006. 40 p.
- 13 *Danfoss EKC Trial Project Deliverables*, Larsen, Kim Guldstrand ; Larsen, Ulrik ; Nielsen, Brian ; Skou, Arne ; Wasowski, Andrzej. Århus University : BRICS, 2003. 53 p.

Invited Papers

- 14 *20 Years of Modal and Mixed Specifications* Antonik, Adam ; Huth, Michael ; Larsen, Kim Guldstrand ; Nyman, Ulrik ; Wasowski, Andrzej. In: Bulletin of the European Association for Theoretical Computer Science. 2008 ; No. 95, June.

Ph.D. Thesis

- 15 *Modal Transition Systems as the Basis for Interface Theories and Product Lines*, Ulrik Nyman : Ph.D Thesis, Department of Computer Science, Aalborg University, 2008.