

# CURRICULUM VITAE

ANSSI MIKAEL YLI-JYRÄ

Compiled on January 31, 2008

## PERSONAL DATA

Birth date and place: 1970, Seinäjoki, Finland  
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## ACADEMIC DEGREES AND QUALIFICATIONS

Ph.D., Language Technology, University of Helsinki, Finland <i>eximia cum laude approbatur</i>	Sep. 13, 2005
Laudatur, Computer Science for Nonmajors, U. Helsinki, Finland <i>eximia cum laude approbatur</i>	Sept. 5, 2005
M.A., Computational Linguistics, University of Helsinki, Finland <i>magna cum laude approbatur</i>	June 3, 1997
B.A., Computational Linguistics, University of Helsinki, Finland	Nov. 14, 1995
Matriculation, Finnish, Sr. Sec. School Seinäjoen Lukio, Finland <i>laudatur</i>	May 31, 1989

## DISSERTATION TITLE AND MAJOR SUBJECT

Dissertation title: *Contributions to the Theory of Finite-State Based Linguistic Grammars*  
 Major subject: *Language Technology* (with applications to eHumanities rather than Engineering)

## DOCENTSHIPS

Docent of Language Technology, University of Helsinki, Finland Dec. 5, 2006

## CURRENT POSITION

Application Specialist, CSC - Scientific Computing Ltd., P.O. Box 405 May 4, 1998 - Present

## EMPLOYMENT HISTORY

8/2007 - Present	childcare leave
7/2007 - 7/2007	Application Specialist (ICT localization coordination), CSC - Scientific Computing Ltd., P.O. Box 405 FI-02101 Espoo, Finland
5/2007 - 6/2007	27% Researcher (Finite-State Algorithms), Department of General Linguistics, P.O. Box 9, FIN-00014 University of Helsinki, Finland
1/2005 - 4/2007	Application Specialist (Language Bank, ICT Localization Coordination), CSC ...
1/2002 - 12/2004	Researcher in Training, Department of General Linguistics ...
11/9/2000 - 12/2001	Application Specialist (A Web Robot Architect), CSC ...
7/2000 - 10/9/2000	Principal System Analyst, Department of General Linguistics ...

4/5/1998 - 6/2001	Application Specialist (A Web Robot Architect), CSC ...
6/1997 - 9/4/1998	Adjunct Researcher (Finite-State Parsing), Department of General Linguistics ...
9/1996 - 5/1997	Software Architect / Encyclopaedia Editor (Bilingual Treebanking), Aika Oy Publishing House, P.O. Box 99, 42701 Keuruu, Finland
1/1996 - 12/1996	20% Research Assistant (SGML), Department of General Linguistics ...
10/1994 - 12/1994	Assistant Lecturer, Department of General Linguistics ...
2/1992 - 8/1994	System Analyst (Automatic Corpus Annotation), Ristin Voitto Publications, Vantaa, Finland
3/6/1991 - 7/7/1991	System Analyst (Information Management), South Ostrobotnian Hospital District, Hospital of Seinäjoki, Finland
4/2/1991 - 5/1991	Deputy High School Teacher (Computers, Business), Seinäjoki City
19/2/1990 - 23+30/2/1990	Deputy High School Teacher (Computers, Business), Seinäjoki City
1985 - 1993	Part-Time System Analyst (Business Computing), Accounting Service Seinäjoen Tilitoimisto

## MEMBERSHIP

1. Association for Computational Linguistics (ACL), ACL-SIGMORPHON, ACL-SIGDAT.

## SCHOLARLY AND PROFESSIONAL DUTIES

### 1. EDITORIAL BOARDS

- *Editorial Board Member* of "Inquiries into Words, Constraints and Contexts", CSLI Studies in Computational Linguistics ONLINE, CSLI Publications, Stanford, CA, 2005.
- *Editorial Board Member* of volume 4002 in Lecture Notes in Artificial Intelligence, Springer, 2006.

### 2. INTERNATIONAL STANDARDIZATION

- *Coordinator*, the ICT Localization Project, the Ministry of Education / SFS / ISO JTC1/WG2, 2006 - 2007.

### 3. REVIEWS FOR JOURNALS

- *Reviewer*, Special Supplement to SKY Journal of Linguistics 19, 2006.
- *Reviewer*, International Journal of Foundations of Computer Science, World Scientific.

### 4. EXTERNAL REVIEWS

- *Sensor*, the Humanistic Faculty, University of Tromsø, 2007.

### 5. PROJECT REVIEWS

- *Reviewer*, the National Electronic Library, Finland, 2001.

### 6. CONFERENCE AND WORKSHOP ORGANIZATION

- *Steering Committee Member*, the Seventh International Workshop on Finite-State Methods and Natural Language Processing, FSMNLP 2008, Ispri, Italy, September 2008.
- *Organizing Committee Chair*, New Developments in Constraint Grammar, CG 2007, a Workshop in the 16th Nordic Conference on Computational Linguistics, Tartu, Estonia, May 2007.
- *Organizing Committee Co-Chair*, Applications and Problems of Finite-State Morphology in Less Studied Languages, TWOL Day, Helsinki, Finland, August 2005.

- *Organizing Committee Member*, the Fifth International Workshop on Finite-State Methods and Natural Language Processing, FSMNLP 2005, Helsinki, Finland, September 2005.

#### 7. CONFERENCE AND WORKSHOP REVIEWS

- *Program Committee Member*, Between Chunking and Deep Parsing, PaPa 2008, an LREC 2008 Workshop on PARTIAL PARSING, Marrakech, Morocco, June 2008.
- *Program Committee Member*, the Seventh International Workshop on Finite-State Methods and Natural Language Processing, FSMNLP 2008, Ispra, Italy, September 2008.
- *Reviewer*, the 45th Annual Meeting of the Association for Computational Linguistics, ACL 2007, Prague, June 2007.
- *Reviewer*, the 16th Nordic Conference of Computational Linguistics, NoDaLiDa 2007, Tartu, May 2007.
- *Reviewer*, the 6th International Workshop on Finite-State Methods and Natural Language Processing, FSMNLP 2006, Potsdam, Germany, September 2007.
- *Program Committee Member*, New Developments in Constraint Grammar, CG 2007, a SIGCG Workshop in the 16th Nordic Conference on Computational Linguistics, Tartu, Estonia, May 2007.
- *Program Committee Member*, the 11th Conference on Formal Grammar, FG-2006, Malaga, Spain, July, 2006.
- *Reviewer*, FinTAL 2006, The 5th International Conference on Natural Language Processing, Turku, Finland, August 2006.
- *Reviewer* for Morphology, Phonology and Finite-State Methods, COLING/ACL2006 - Joint Conference of the International Committee on Computational Linguistics and the Association for Computational Linguistics, Sydney, Australia, 2006.
- *Reviewer*, the 5th International Workshop on Finite-State Methods and Natural Language Processing, FSMNLP 2005, Helsinki, Finland, September 2005.
- *Reviewer*, Applications and Problems of Finite-State Morphology in Less Studied Languages, TWOL Day, Helsinki, Finland, August 2005.
- *Reviewer*, the 9th Conference on the European Chapter of the Association for Computational Linguistics, EACL'99, Bergen, Norway, June 1999.

#### AWARDS

The Nordic Academy for Advanced Study (Norfa) Ph.D. scholarship, 2002 – 2004

#### VISITING POSITIONS

2 May - 2 Jul 2007      Visiting Researcher, Department of Sociology and Communication, Budapest University of Technology and Economics

#### SEMINARS AND INVITED TALKS

1. *The Hidden Jewels of Double Negation*, the 6th International Workshop on Finite-State Methods and Natural Language Processing, FSMNLP 2006, Potsdam, Germany, September 15, 2007.
2. *On the Relevance of Finite-State Grammars to Linguistics*, Hungarian Academy of Sciences, Research Institute for Linguistics, Budapest, Hungary, May 10, 2007.
3. *Generality and Openness in Enabling Methodologies for Morphology and Text Processing*, Roadmap for Language Resources and Evaluation in a Multilingual Environment, organized by COCOSDA and WRITE in conjunction with LREC 2006, Genoa, 28 May, 2006.

4. *A Measure for Syntactic Complexity of Non-Projective Dependency Trees*, Approaches to Complexity in Language, a Symposium of Linguistic Association of Finland (SKY), Helsinki, August 24-26, 2005
5. *Initiative for an Open and Extendible Finite-State Morphology Workbench*, Applications and Problems of Finite-State Morphology in Less Studied Languages, TWOL Day, Helsinki, Finland, August 2005.
6. *Some Connections between Theoretical Computer Science and Linguistics*, National Workshop on Automata, Words and Logic, AWL 2005, University of Helsinki, August 31, 2005.
7. *From Brainstorming to Productivity: Some Experiences from a Successful Ph.D. Project*, The General Seminar of Nordic LT research program, University of Joensuu, May 18-19, 2005.
8. *An Application of MSOL: Search-and-Replace-All For Regular Languages*, Research seminar in Finite Model Theory, a joint seminar of the Department of Mathematics at the University of Helsinki and the Department of Mathematics, Statistics and Philosophy at the University of Tampere, December 16, 2005.
9. *Describing Natural Language Using Automata Constraints on an Inverse Homomorphic Stringset in Finite-State Intersection Grammar*, Research seminar in Finite Model Theory, a joint seminar of the Department of Mathematics at the University of Helsinki and the Department of Mathematics, Statistics and Philosophy at the University of Tampere, April 19, 2002.
10. *Encoded Trees versus Hidden Trees in Finite State Intersection Grammar*, National Workshop on Automata, Words, and Logic, AWL 2002, University of Turku, May 15, 2002.
11. *Linguistic Sense to Information Influx*, FinELib Days, the National Electronic Library, Helsinki, May 30, 2000.

#### TEACHING

1. Graduate Courses
  - Ctl310fs *Finite Automata* (University of Helsinki), 2002.
2. Undergraduate Courses
  - CY14. *Basics of Natural Language Processing* (University of Helsinki), 1993.

#### CURRENT RESEARCH INTERESTS

- Less-Studied Languages
- Common Language Technology Resources
- Finite-State Morphology and Phonology
- Context-Sensitive Rules and Mildly Context-Sensitive Grammars
- Computer-Aided Adaptation of Morphologically Complex Languages
- On-Demand Grammar Compilation
- Grammar Induction

#### PROJECT GRANTS AND MOBILITY GRANTS

1. *Mobility Grant*, The Academy of Finland, 2007
2. *Organizing the FSMNLP 2005 conference*, The Academy of Finland, 2005