

CURRICULUM VITAE (short)

February 2007

SILVIA GHILEZAN

ACADEMIC RECORD

- **1993** Ph.D. DEGREE IN MATHEMATICS AND COMPUTER SCIENCE FROM THE FACULTY OF SCIENCE, UNIVERSITY OF NOVI SAD, YUGOSLAVIA;
- **1988** M.Sc. DEGREE IN MATHEMATICS FROM THE FACULTY OF MATHEMATICS, UNIVERSITY OF BELGRADE, YUGOSLAVIA;
- **1981** B.Sc. DEGREE IN MATHEMATICS FROM THE FACULTY OF SCIENCE, UNIVERSITY OF NOVI SAD, YUGOSLAVIA.

TENURED POSTS

2005-present Full Professor, Faculty of Engineering, University of Novi Sad, Serbia.

2000-2004 Associate Professor, Faculty of Engineering, U. of Novi Sad.

1995-1999 Assistant Professor at Faculty of Engineering, U. of Novi Sad.

1984-1994 Teaching Assistant at Faculty of Engineering, U. of Novi Sad.

1987-present Researcher at the Mathematical Institute, Serbian Academy of Sciences and Arts, Belgrade, Serbia

VISITING POSTS

2001-2002 Ecole Normale Supérieure de Lyon, Lyon, France.

2000-2001 Computing Science Department, Catholic University, Nijmegen, The Netherlands.

FELLOWSHIPS

- 1993 Department of Mathematics and Statistics, McGill University, Montreal, Canada;
- 1992 Department of Informatics, University of Turin, Turin, Italy;
- 1990-1991 Faculty of Mathematics and Informatics, Catholic University, Nijmegen, The Netherlands.

LANGUAGES

- Spoken: English, French, Hungarian, Roumanian, Serbian
- Communicative competence: Italian, Dutch, Russian.

DOMAINS OF RESEARCH

- Theoretical Computer Science: lambda calculus, type theory;
- Logic: proof theory, logic in computer science;
- Global computing: mobile processes, security types;
- Mathematical Linguistics.

PROJECTS AND GRANTS -ONGOING

- “Models, Languages, Types and Processes in Computing” - leader of the national project 144029 of the Ministry of Science, Serbia (2006-2010)
- “Mathematical models in information technologies”- leader of the provincial project of the Provincial Secretariat for Science and Technological Development of Voivodina(2005-2007)
- “TLIT – Types and Logic in Information Technologies” - leader of the Bilateral project CNRS, France- Ministry of Science, Serbia (2007-2008)
- “Distance learning in the area of computer supported mathematical education”- leader of the Bilateral project Slovenia - Ministry of Science, Serbia (2006-2007)
- “TYPES- Types for proofs and programs” - responsible for the Serbian subsite of the EU FP6-2002 Informational Society Technology project 51096 (2004-2007)
- “Models, languages and types in global computing”-leader of the national Project 134002 of the Ministry of Science, Serbia (2005)-finished.

COOPERATION WITH RESEARCH GROUPS:

- Computing Science Department, Catholic University, Nijmegen, The Netherlands (Prof. H.P. Barendregt);
- Dipartimento di Informatica, Universita' degli Studi di Torino,Torino, Italy (Prof. M. Dezani-Ciancaglini);
- Mathematical Institute of the Serbian Academy of Sciences and Arts, Belgrade (Prof. K. Dosen);
- Dipartimento di Informatica, Universita' degli Studi di Torino,Torino, Italy (Prof. F. Honsell);
 - Ecole Normale Supérieure de Lyon, Lyon, France (Prof. P. Lescanne);
 - Department of Mathematics, McGill University, Montreal, Canada (Prof. J. Lambek);
 - Department of Computer Science, Worcester Polytechnic Institute, USA (Prof. D. Dougherty);
 - Department of Computer Science, Exeter University, UK (Prof. J. Zunic);
 - Informatics Department, Scoala Normala Superioara Bucuresti, Romania(Prof. R. Diaconescu)
 - Ecole Polytechnique, Paris, France (Prof.H. Herbelin).

TEACHING

- **UNDERGRADUATE COURSES**
 - Calculus in Engineering (Mechanical, Civil, Transportation Engineering)
 - Mathematical Statistics (Management, Environmental Protection)
 - Mathematical Logic
- **GRADUATE COURSES:**
 - Mathematical Logic in Computer Science
 - Decidability and Computability
 - Functional Programming Languages
 - Semantics of Programming Languages
 - Theory of Mobile Processes
 - Scientific writing
- **COURSES HELD ABROAD (ECOLE NORMALE SUPERIEURE DE LYON)**
 - Semantics of programming languages
 - Decidability and the theory of computing
 - Rewriting and lambda calculus

PHD AND MASTER STUDENTS

- Silvia Likavec, UNS, University of Turin, ENS-Lyon
- Viktor Kuncak, MIT, USA
- Marija Kolundzija, University of Novi Sad
- Jelena Ivetić, University of Novi Sad
- Svetlana Jaksić, University of Novi Sad

REFEREE FOR JOURNALS (MAJOR)

- Information and Computation, Academic Press, USA;
- Theoretical Computer Science, Elsevier, B.V., NL;
- Lecture Notes in Computer Science, Springer-Verlag, Germany;
- Mathematical Structures in Computer Science, Cambridge University Press, UK;
- Journal of Logic and Computation, Oxford University Press, UK;
- Electronic Notes in Theoretical Computer Science, Elsevier, B.V., NL;
- Notre Dame Journal of Formal Logic, USA;
- Fundamenta Informaticae, IOS Press, Amsterdam, NL;
- Mathematical Reviews, USA ;
- Zentralblatt fur Mathematik, Germany.

REFEREE FOR CONFERENCES (MAJOR)

- Typed Lambda Calculus and Application, TLCA'07 Paris France, 2007;
- Typed Lambda Calculus and Application, TLCA'05, Nara, Japan, 2005;
- Rewriting techniques and application, RTA'04, Aachen, Germany, 2004;

- Workshop on Logic, Language, Information and Computation WoLLIC 2004, Paris, France, 2004;
- Workshop of the Types Network, TYPES 2002, Nijmegen, The Netherlands, 2002;
- Rewriting techniques and application, RTA'02, Copenhagen, Denmark, 2002;
- Theoretical Computer Science, TCS'02, Montreal, Canada, 2002;
- ACM SIGPLAN International Conference on Functional Programming, ICFP'00, Montreal, Canada, 2000.

PUBLICATIONS

- 24 publications in international journals
- 7 publications in national journals
- 23 communications at international conferences (TGC'06, LPAR'05, PPDP'04, ITRS'05, TYPES'03, ITRS'02, TYPES'02, RPC'01, ICTCS'01...)
- 6 communications at national conferences
- 17 communications as a guest speaker (Italy, The Netherlands, France, Denmark, Greece, Hungary and Canada).

PUBLICATIONS (major recent: 2000-2005)

1. M.Dezani-Ciancaglini, S. Ghilezan and J. Pantović: Security types for dynamic web data, Trustworthy Global Computing, TGC'06, Lecture Notes in Computer Science (2006), Springer.
2. S. Ghilezan, J. Pantovic and J. Zunic: Partitioning Finite d-Dimensional Integer Grids with Application, in T. Gonzalez, editor, Handbook of Approximation Algorithms and Metaheuristic, (2005) publisher Taylor & Fransis Group, USA.
3. D.Dougherty, S.Ghilezan, P.Lescanne and S.Likavec: Strong normalization of the classical sequent calculus, Logic Programming and Artificial Reasoning, LPAR 2005, Lecture Notes in Computer Science 3835 (2005) 169-183, Springer-Verlag, Berlin.
4. D.Dougherty, S. Ghilezan, P. Lescanne: Intersection and union types in the lambda-mu-mu calculus, ITRS'05 Electronic Notes in Theoretical Computer Science, 136 (2005) 153-172 Elsevier Science B.V.
5. M.Dezani-Ciancaglini, S. Ghilezan and S. Likavec: Behavioural inverse limit lambda models, Theoretical Computer Science 316(1) (2004) 49-74, Elsevier Science B.V.
6. D.Dougherty, S. Ghilezan, P. Lescanne, Characterizing strong normalization in a language with control operators, Proceedings of the ACM-SIGPLAN Principles and Practice of Declarative Programming PPDP'04 (2004) 155-166.

7. S. Ghilezan, and P. Lescanne, Classical proofs, typed processes and intersection types, Types for Proofs and Programs, TYPES'03, Lecture Notes in Computer Science 3085 (2004) 226-241, Springer-Verlag, Berlin.
8. M. Dezani-Ciancaglini and S. Ghilezan: Two behavioural lambda models, Types for Proofs and Programs, TYPES'02, Lecture Notes in Computer Science 2646 (2003) 127-147, Springer-Verlag, Berlin.
9. S. Ghilezan and S. Likavec: Reducibility: a ubiquitous method in lambda calculus with intersection types, ITRS'02 Electronic Notes in Theoretical Computer Science 70 (2002), Elsevier Science B.V.
10. S. Ghilezan: Full intersection types and topologies in lambda calculus, Journal of Computer and System Sciences 62 (2001) 1-14, Academic Press, New York.
11. M. Dezani-Ciancaglini and S. Ghilezan: A lambda model characterizing computational behaviors of terms, invited talk, Proceedings of the International Workshop on Rewriting in Proof and Computation RPC'01, Sendai, Japan (2001) 100-118.
12. S. Ghilezan and V. Kuncak: Confluence of untyped lambda calculus via simple types, 5th Italian Conference on Theoretical Computer Science ICTCS'01, Turin, Italy, Lecture Notes in Computer Science 2201 (2001) 38-49, Springer-Verlag, Berlin.
13. H.P. Barendregt and S. Ghilezan: Lambda terms for natural deduction, sequent calculus and cut elimination, Journal of Functional Programming 10 (2000) 121-134, Cambridge University Press, Cambridge.

LIST OF COAUTHORS

H.P. Barendregt (University of Nijmegen, The Netherlands), M. Dezani-Ciancaglini, S. Likavec (University of Turin, Italy), D. Dougherty (Worcester Polytechnic Institute, USA), H. Herbelin (Ecole Polytechnique, Paris, France), V. Kuncak (MIT, USA), P. Lescanne (ENS-Lyon, France), S. Likavec (University of Turin, Italy), J. Pantović (University of Novi Sad), B. Venneri (University of Florence, Italy), J. Žunić (University of Exeter), J. Espirito-Santo (University of Minho, Portugal).

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