

CURRICULUM VITAE:

Markus Frick
LIAFA, Université Deni Diderot
Case 7014- 2, place Jussieu F-75251
Paris Cedex 05
Email: mfrick@inf.ed.ac.uk



Biographical Data:

Date of birth: 21.02.1970
Place of Birth: Bad Waldsee
Citizenship: German

Education:

09/97 - 06/01	Ph.D in Mathematics (magna cum laude) Universität Freiburg
10/91 - 07/97	Studies in Mathematics and Philosophy Diploma in Mathematics (sehr gut) Universität Freiburg
10/89 - 09/91	Studies in Computer Science, Vordiplom (gut) Universität Ulm
06/89	Abitur (1.8)

Professional Experience:

03/03 - 06/03	Research Assistant (model-checking and database theory) Université de Paris VII, Laboratoire d'Informatique Algorithmique: Fondements et Applications
11/01 - 02/03	Research Assistant (topics include model-checking, software engineering, database theory and efficient algorithms) University of Edinburgh, Laboratory of Foundations of Computer Science
10/98 - 09/01	Teaching Assistant (tutoring, organization, etc.) Abteilung für Grundlagen der Mathematik, Universität Freiburg
10/95 - 03/96	Smalltalk Programming Department for Computational Linguistics
10/93 - 02/97	Several appointments as Tutor (grading and tutoring for linear algebra, calculus, etc.)
03,04/90 and 07/90 - 09/90	Software engineering (analysis, design and development of a benchmarking tool for multi-user behaviour of MDT- Systems) Härle Consulting (now called All For One Systemhaus AG)

International Experience:

11/01 - 02/03	Research Assistant University of Edinburgh, UK
03/99 (4 weeks)	Research Stay University of Helsinki, Finland
04/98 (2 weeks)	Research Stay Israel Institute of Technology (Technion), Israel
09/97 - 07/98	Postgraduate Program in Computer Science (Complexity Theory), funded by the DAAD Universitat Politecnica de Catalunya, Barcelona, Spain
09/94 - 03/95	Student of Computer Science, funded by Erasmus Universidad del Pais Basco, San Sebastian, Spain

Further Relevant Qualifications:

- In-depth knowledge of algorithmic design (efficient algorithms, data-structures), model-checking (formal verification) and database theory (special interest in foundations of query languages and semi-structured data/XML).
- Extensive experience in C,C++, Java, Smalltalk, SQL and SML. Programming experience in Pascal, Modula II, DBASE III and BASIC.
- Working under Linux, Sun Solaris and Windows. Maintenance experience under Linux.
- Languages: German (native), English and Spanish (very good, written and spoken), Catalan and French (basic knowledge)

Activities:

- Cycling, Mountaineering

Publications:

- M. Frick (2003). *Delay algorithms for Query Evaluation*. Technical Report, University of Edinburgh. To be submitted.
- M. Frick, M. Grohe, C. Koch (2003). *Query Evaluation on Compressed Trees*, Accepted for publication at LICS 2003.
- M. Frick, M. Grohe (2002). *The complexity of first-order and monadic second-order logic revisited*, LICS 2002. Full version invited for publication in Annals of Pure and Applied Logic.
- M. Frick (2002). *Generalized Model-Checking for locally tree-decomposable structures*, STACS 2002. Full version invited for publication in Theory of Computing Systems.
- M. Frick (2001). *Easy Instances for Model Checking*, PhD Thesis.
- J. Flum, M. Frick, M. Grohe (2001). *Query evaluation via tree-decompositions*, ICDT 2001. Full version appeared in the Journal of the ACM 49(6), 2002.
- M. Frick, M. Grohe (1999). *Checking first-order properties of tree-decomposable graphs*, ICALP 1999. Full version appeared in the Journal of the ACM 48(6), 2001.
- M. Frick (1997). *Oracles and Quantifiers*, Diploma Thesis.

Invited Talks:

- University of Helsinki (Finland), *Checking first-order properties on planar graphs*, March 1999.
- International Congress on Database Theory, *Query evaluation via tree-decompositions*, London (UK), January 2001.
- Symposium of Theoretical Aspects of Computer Science, *Generalized model-checking over locally tree-decomposable classes*, Nice (France), March 2002.
- University of Tübingen, *The parameterized complexity of model-checking*, May 2002.
- Technical University of Vienna (Austria), *Lower bounds of the parameterized complexity of model-checking*, June 2002.
- International Congress on Graph Transformation, *Model-checking monadic second-order logic*, Barcelona (Spain), October 2002.

References:

Prof. Martin Grohe
Laboratory for Foundations of Computer Science
University of Edinburgh
Phone: +44 (0)131 650 5135
grohe@inf.ed.ac.uk

Prof. Heinz-Dieter Ebbinghaus
Mathematische Fakultät
Universität Freiburg
+49(0)761 203 5603
hde@uni-freiburg.de

Prof. Georg Gottlob
Institut für Informationssysteme
Technische Universität Wien
Phone: +43(0)1 58801 18420
gottlob@dbai.tuwien.ac.at

Prof. Peter Buneman
Laboratory for Foundations of Computer Science
University of Edinburgh
Phone: +44 (0)131 650 5133
peter@cis.upenn.edu