

Curriculum Vitae

Personal details:

Name: Robert George Mercas

Date and place of birth: 8th April 1981, Pascani, jud. Iasi, Romania

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Research Group on Mathematical Linguistics
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Educational Background

2006 - 2010 July

PhD - University of Tarragona, International PhD School in Formal Languages and Applications, Tarragona, Spain

PhD Thesis: *Repetitions in Partial Words*

Supervisors:

prof. Dr. F. Blanchet-Sadri - University of North Carolina at Greensboro

prof. Dr. Victor Mitrana - University of Bucharest

2004 - 2006

Master Degree in Theoretical Computer Science - University of Bucharest, Faculty of Mathematics, Department of Computer Science, Bucharest, Romania

Master Thesis: *A JAVA interpreter for interactive programs with registers and voices*

2000 - 2004

Bachelor degree - University of Bucharest, Faculty of Mathematics, Department of Computer Science, Bucharest, Romania

Graduation paper: *Oracle Databases tuning*

Research interests

strings (combinatorics and mathematical properties)

string algorithms and complexity

trace monoids (contextual)

applications to text processing

natural language processing (new developments)

formal languages (automata and grammars)

Stays at other Universities

2010: LIAFA Research Group, CNRS and Paris Diderot (Paris 7), France.
Duration: 3 months.

Research on plactic monoids and Young tableaux.

- 2009:** University of North Carolina at Greensboro, USA. Duration: 6 months.
Research on partial words.
- 2009:** LIAFA Research Group, CNRS and Paris Diderot (Paris 7), France.
Duration: 3 weeks.
Research on contextual trace monoids.
- 2008:** University of North Carolina at Greensboro, USA. Duration: 6 months.
Research on partial words.
- 2007:** University of Debrecen, Hungary. Duration: 5 weeks.
Research on primitive words.
- 2007:** University of North Carolina at Greensboro, USA. Duration: 2 months.
Research on partial words.
- 2005:** University of Bristol, UK. Duration: 6 months.
One semester of MA studies.

Invited Talks and Seminars

2010

Avoidable Patterns in Partial Words, Otto-von-Guericke-Universitaet (Germany), June

2009

Abelian Squares in Partial Words, UNC at Greensboro (USA), June
Counting Squares in Partial Words, UNC at Greensboro (USA), June

2008

Squares in Partial Words, UNC at Greensboro (USA), June
Freeness of Partial Words, UNC at Greensboro (USA), June

2007

Freeness of Partial Words, University of Debrecen (Hungary), October
Repetitions in partial words, Rovira i Virgili University (Spain), September
Cube Freeness in Partial Words, UNC at Greensboro (USA), June

Fellowships and Awards

January 2009 - 2 weeks exchange grant from the European Science Foundation (ESF) for the activity Automata: from Mathematics to Applications

January 2009 - 1 year collaboration grant with the Rovira and Virgili University's, School of Graduate Studies

June 2006 - mobility grant by the Spanish Ministry of Education and Science

Projects and Scholar activities

September 2009 - 1 year position as an activ researcher in a Rovira and Virgili University project, ref: 1323 U07 E30 N-2008/InvAct/Bel, G./BJ01

June - July 2007/8/9 - research assistant for the Research Education for Undergraduates program REU: Algorithmic Combinatorics on Words, University of North Carolina at Greensboro, USA

Teaching and supervising undergraduate students in their research work.

Reviewer for

Fundamenta Informaticae
Information and Computation
International Journal of Computer Mathematics
Information Processing Letters
Romanian Journal of Information, Science and Technology
Theoretical Computer Science
Developments in Language Theory Conference
International Symposium on Fundamentals of Computation Theory

Language Skills

Romanian: native speaker

English: fluent in conversation, writing and reading

Spanish: medium in reading, writing and conversation

French: beginner in reading, writing and conversation

German: beginner in reading, writing and conversation