

CURRICULUM VITAE

▪ Personal details:

Name: Robert George Mercas

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

Address: Research Group on Mathematical Linguistics

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▪ Educational Background

2006 - Present

PhD - University of Tarragona, Faculty of Letters, Department of Romanesque Philology, International PhD School in Formal Languages and Applications, Tarragona, Spain

2004 - 2006

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

Master Thesis: “A JAVA interpreter for interactive programs with registers and voice”

2000 - 2004

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

Graduation paper: “Oracle Databases tuning”

▪ Experience:

June 2009 – November 2009

“Algorithmic Combinatorics on words REU”, University of North Carolina at Greensboro – Research Assistant

June 2008 – November 2008

“Algorithmic Combinatorics on words REU”, University of North Carolina at Greensboro – Research Assistant

April 2007 - May 2008

“Postgraduate and Doctoral School”, University Rovira i Virgili - web Administrator

June 2007 – August 2007

“Algorithmic Combinatorics on words REU”, University of North Carolina at Greensboro – Research Assistant

October 2005 - February 2006

“Elite Trading Impex srl” call center operator (night job)

October 2004 - February 2006

“University of Bucharest”, lab supervisor for the classes: “Programming using C” (Lect. Dr. Cherciu Mihai), “Data Structures” (Conf. Dr. Ceterchi Rodica), “Computer Networks and Distributed Calculus” (Conf. Dr. Baranga Andrei)

April 2004 – December 2004

“Milenium School”, Bucharest, Operating System Trainer (Windows, Microsoft Office)

▪ Seminars, Conferences and other Scientific events

April 2 – April 8, 2009

Attended the 3rd International Conference on Language and Automata Theory and Applications, Tarragona, Spain (Orally presented the paper “An answer to a conjecture on overlaps in partial words using periodicity algorithms”)

March 13 – March 19, 2008

Attended the 2nd International Conference on Language and Automata Theory and Applications, Tarragona, Spain

February 2006 – present

Weekly GRLMC seminars, Tarragona, Research Group on Mathematical Linguistics, University Rovira i Virgili

March 29 – April 4, 2007

Orally presented the paper “On the syllabification of words via go-through automata” in 1st International Conference on Language and Automata Theory and Applications, Tarragona, Spain

▪ Publications

2009

1. “A note on the number of squares in partial words with one hole”, with F. Blanchet-Sadri, *RAIRO - Theoretical Informatics and Applications*, to appear.
2. “The three-squares lemma for partial words with one hole “, with F. Blanchet-Sadri and Kristen Wetzler, 7th International Conference on Words.
3. “Contextual partial commutations“, with Christian Choffrut, Automata: from Mathematics to Applications (AutoMathA 2009, Liège, Belgium) Conference.
4. “On the design of NEP context free parsers: application to natural language processing”, with Alfonso Ortega, Emilio del Rosal, Diana Pérez, Alexander Perekrestenko and Manuel Alfonseca, 10th International Work-Conference on Artificial Neural Networks (IWANN 2009, Salamanca, Spain), LNCS 5517. Springer Berlin - Heidelberg, pp. 472-479.
5. “Networks of Evolutionary Processors as Natural Language Parsers”, with Gemma Bel-Enguix, M. Dolores Jimenez-Lopez and Alexander Perekrestenko, in: Joaquim Filipe, Ana Fred and Bernadette Sharp (Eds.), *Proceedings of the 1st International Conference on Agents and Artificial Intelligence (ICAART 2009, Porto, Portugal)*. ISBN 978-989-8111-73-9, pp. 626-631.
6. “A generalization of Thue freeness for partial words”, with F. Blanchet-Sadri and Geoffrey Scott, *Theoretical Computer Science*, Vol. 410, Issues 8-10, 1 March 2009, pp 793-800.
7. “How many holes can an unbordered partial word contain”, with F. Blanchet-Sadri, Emily Allen and Cameron Byrum, in: A.H. Dediu, A.M. Ionescu, and C. Martín-Vide (Eds.): *LATA 2009*, LNCS 5457, 2009. Springer-Verlag, pp. 176-187.
8. “An Answer to a Conjecture on Overlaps in Partial Words Using Periodicity Algorithms”, with F. Blanchet-Sadri, Abraham Rashin and Elara Willett, in: A.H. Dediu, A.M. Ionescu, and C. Martín-Vide (Eds.): *LATA 2009*, LNCS 5457, 2009. Springer-Verlag, pp 188-199.
9. “Unbordered Partial Words”, with F. Blanchet-Sadri, C. D. Davis, C.D., Joel Dodge and Margaret Moorefield, *Discrete Applied Mathematics*, Vol. 157, Issues 5, 6 March 2009, pp 890-900.

2008

10. “Counting distinct squares in partial words”, with F. Blanchet-Sadri and Geoffrey Scott, In E. Csuhaaj-Varju and Z. Esik (Eds.), *AFL 2008*, 12th International Conference

on Automata and Formal Languages, May 27-30, 2008, Balatonfüred, Hungary, Proceedings, pp 122-133.

2007

11. "Freeness on Partial Words", with Florin Manea, Theoret. Comput. Sci., Vol. 389, Issues 1-2, 10 December 2007, pp 265-277.

▪ **Language Skills**

Romanian: native

English: fluent in conversation, writing and reading

Spanish: medium in reading, writing and conversation

Last update:
19th of August 2009
Robert George Mercas