

Jorge L. Toro Pozo

Curriculum Vitae

Updated on November 6, 2017

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Personal

Present position PhD student at SaToSS group, Université du Luxembourg
Date and place of birth October 30, 1988 in Las Tunas, Cuba
Citizenship Cuba

Education

6/2015–Present **PhD** in Computer Science (Information and Communications Security), *Université du Luxembourg*, Luxembourg.
Thesis project: *Symbolic verification of distance-bounding and multiparty authentication protocols* (under Luxembourg FNR grant AFR-PhD-10188265)
Supervisor: Prof. Dr. Sjouke Mauw
Scientific advisor: Dr. Rolando Trujillo-Rasua

9/2013–11/2014 **MSc** in Applied Computer Science, *Universidad de Las Tunas*, Cuba.
Thesis project: *A new metaheuristic based on Variable Mesh for multi-objective optimization*.
Supervisor: Prof. Dr. Rafael Bello-Pérez
Scientific advisor: MSc. Yamisleydi Salgueiro-Sicilia

9/2007–7/2012 **BSc** in Computer Science (with distinction), *Universidad de Oriente*, Cuba.
Thesis project: *Noise detection and cleaning in data streams*
Supervisor: Dr. Damaris Pascual-González
Scientific advisor: Dr. Fernando Vázquez-Mesa

Work Experience

6/2015–Present **PhD student**, *Université du Luxembourg*, Luxembourg.
◦ Assistant in lecturing MSc courses: Security Protocols and Information Security Basics
◦ Assistant in supervising MSc students

9/2013–8/2014 **Lecturer**, *Institute of Exact Sciences of Las Tunas*, Cuba.
◦ Coach/Trainer of students for international mathematical contests

9/2012–5/2015 **Research Associate & Lecturer**, *Universidad de Las Tunas*, Cuba.
◦ Researcher in Evolutionary Computation, Metaheuristics for Optimization
◦ Lecturer in Operating Systems, Data Structures and Advanced Programming
◦ Coach/Trainer of ACM-ICPC contestants

9/2012–5/2015 **Software Developer**, *Universidad de Las Tunas*, SoftDev Group, Cuba.
◦ Java, Python, C/C++, SQL, MySQL, PostgreSQL, Eclipse, Unix/Linux Scripting

Research Interests

◦ Security and Privacy, Security Protocols, Formal Verification, Formal Methods, Wireless Communication Systems, Theoretical Computer Science, Mathematics

Publications

- [1] Sjouke Mauw, Zach Smith, Jorge Toro-Pozo, and Rolando Trujillo-Rasua. Distance-bounding protocols: Verification without time and location. In *IEEE Symposium on Security and Privacy (Oakland), S&P 2018, San Francisco, California, USA, May 21–23, 2018*. IEEE, May 2018. (to appear).
- [2] Sjouke Mauw, Jorge Toro-Pozo, and Rolando Trujillo-Rasua. Optimality results on the security of lookup-based protocols. In *Radio Frequency Identification and IoT Security - 12th International Workshop, RFIDSec 2016, Hong Kong, China, November 30 - December 2, 2016, Revised Selected Papers*, pages 137–150, December 2016.
- [3] Yamisleydi Salgueiro, Jorge L. Toro, Rafael Bello, and Rafael Falcon. Multiobjective variable mesh optimization. *Annals of Operations Research*, pages 1–25, May 2016.
- [4] Sjouke Mauw, Jorge Toro-Pozo, and Rolando Trujillo-Rasua. A class of precomputation-based distance-bounding protocols. In *IEEE European Symposium on Security and Privacy, EuroS&P 2016, Saarbrücken, Germany, March 21-24, 2016*, pages 97–111. IEEE, March 2016.
- [5] Damaris Pascual González, Fernando Daniel Vázquez Mesa, and Jorge Luis Toro Pozo. Noise Detection and Learning Based on Current Information. *Computación y Sistemas*, 18(1):153–167, 2014.

Honours and Awards

- 2009, 2010 and 2011 Honorable Mention at *Latin America ACM International College Programming Contest (ACM-ICPC) Regional Contest – Caribbean Finals*
- 2009 and 2010 Bronze Medal at *Cuban National University Mathematical Olympiad*
- 2008 Bronze Medal at *XI Iberoamerican University Mathematical Olympiad*
- 2006 Bronze Medal at *21st Iberoamerican Mathematical Olympiad*, Guayaquil, Ecuador
- 2006 Gold Medal at *Cuban National Mathematical Contest*
- 2005 Bronze Medal at *XX Iberoamerican Mathematical Olympiad*, Cartagena de Indias, Colombia
- 2005 Silver Medal at *Cuban National Mathematical Contest*
- 2004 Bronze Medal at *Cuban National Mathematical Contest*

Languages

- Spanish Mother tongue
- English Full professional proficiency

Find me online

- dblp <http://dblp.uni-trier.de/search?q=Jorge%20Toro%20Pozo>
- Google Scholar <https://scholar.google.lu/citations?hl=en&user=VKzT5JwAAAAJ>
- ResearchGate https://www.researchgate.net/profile/Jorge_Toro-Pozo
- LinkedIn <https://www.linkedin.com/in/jorgetoropozo/>