

Myrto D. Arapinis

PERSONAL INFORMATION

born on 12/12/1978
Greek and French citizenship

CONTACT INFORMATION

School of Computer Science, University of Birmingham, Edgbaston, B15 2TT, UK
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POSITIONS

Since Oct. 2008
Research Fellow at the University of Birmingham (Birmingham, UK) in Mark Ryan's team
Sept. 2007 - Aug. 2008
Teaching and research assistant (A.T.E.R.) at LSV, ENS cachan (Cachan, France) where I was a member of the SECSI team
Sept. 2004 - Aug. 2007
Teaching assistant (Allocataire de recherche et monitrice) at PARIS XII University (Créteil, France)

EDUCATION

Ph.D. in Computer Science, November 2008
Paris XII University, Créteil, France
Sécurité des protocoles cryptographiques: décidabilité et résultats de réduction
MSc in Computer Science, September 2004
Paris VII University, Paris, France
D.E.A. Programmation: Sémantique, Preuves, et Langages
BSc in Computer Science, July 2002
Paris XII University, Créteil, France

PUBLICATIONS

Journals

- [1] Myrto Arapinis, Muffy Calder, Louise A. Dennis, Michael Fisher, Philip D. Gray, Savas Konur, Alice Miller, Eike Ritter, Mark Ryan, Sven Schewe, Chris Unsworth, and Rehana Yasmin. Towards the verification of pervasive systems. *Electronic Communication of the European Association of Software Science and Technology*, 22, 2009.
- [2] Frédéric Louergue, Frédéric Gava, Myrto Arapinis, and Frédéric Dabrowski. Semantics and Implementation of Minimally Synchronous Parallel ML. *International Journal of Computer and Information Science*, 5(3):182–199, 2004.

Conferences

- [3] Myrto Arapinis, Sergiu Bursuc, and Mark Ryan. Privacy supporting cloud computing: ConfiChair, a case study. In *First Conference on Principles of Security and Trust, POST 2012*. (accepted).
- [4] Myrto Arapinis, Sergiu Bursuc, and Mark Ryan. Reduction of equational theories for verification of trace equivalence: re-encryption and AC. In *First Conference on Principles of Security and Trust, POST 2012*. (accepted).
- [5] Myrto Arapinis, Eike Ritter, and Mark Ryan. StatVerif: Verification of stateful processes. In *Proceedings of the 24th IEEE Computer Security Foundations Symposium, CSF 2011*, pages 33–47, 2011.

- [6] Myrto Arapinis, Tom Chothia, Eike Ritter, and Mark Ryan. Analysing unlinkability and anonymity using the applied pi calculus. In *Proceedings of the 23rd IEEE Computer Security Foundations Symposium, CSF 2010*, pages 107–121, 2010.
- [7] Myrto Arapinis, Tom Chothia, Eike Ritter, and Mark Ryan. Untraceability in the applied pi-calculus. In *Proceedings of the 4th International Conference for Internet Technology and Secured Transactions, ICITST 2009*, pages 1–6, 2009.
- [8] Myrto Arapinis, Stéphanie Delaune, and Steve Kremer. From one session to many: Dynamic tags for security protocols. In *Proceedings of the 15th International Conference on Logic for Programming, Artificial Intelligence, and Reasoning, LPAR 2008*, pages 128–142, 2008.
- [9] Myrto Arapinis and Marie Duflot. Bounding messages for free in security protocols. In *Proceedings of the 27th International Conference on Foundations of Software Technology and Theoretical Computer Science, FSTTCS 2007*, pages 376–387, 2007.
- [10] Myrto Arapinis, Frédéric Loulergue, Frédéric Gava, and Frédéric Dabrowski. Semantics of minimally synchronous parallel ml. In *Proceedings of the ACIS 4th International Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing, SNPD 2003*, pages 260–267, 2003.

SUBMITTED PAPERS

- [11] Myrto Arapinis, Loretta Mancini, Eike Ritter, and Mark Ryan. Keeping track of your friends and enemies: New privacy threats of cellular telecommunication systems. In *IEEE Symposium on Security and Privacy, SP 2012*.

SOFTWARE

- [12] Myrto Arapinis, Joshua Phillips, Eike Ritter, and Mark Ryan. StatVerif - proverif extension for processes that manipulate global state. <http://markryan.eu/research/projects/StatVerif>.
- [13] Myrto Arapinis, Sergiu Bursuc, Joshua Phillips, and Mark Ryan. ConfiChair - prototype privacy-supporting conference management system. <https://confichair.markryan.eu>.

PROGRAMME COMMITTEES

CryptoForma Workshop, Formal Methods and Cryptography: the Next Generation of Abstractions, Paris, May 25th, 2010.

FCS-PrivMod 2010, Workshop on Foundations of Security and Privacy, Edinburgh, July 14th-15th, 2010, affiliated to FLOC 2010.

SUPERVISION

PhD theses

Loretta I. Mancini. PhD student in the University of Birmingham on **Security protocols verification in pervasive systems**. Co-supervised with Eike Ritter.

Master theses

Matt Roberts. MSc student in the University of Birmingham on **Creating a privacy-supporting conference management system**. Co-supervised with Mark Ryan.

Horatiu N. Gadescu. MSc student in the University of Birmingham on **Using the AVISPA tool for the analysis of a cryptographic envelope protocol**. Co-supervised with Mark Ryan.

SEMINARS

Laboratoire Spécification et Vérification (LSV), Cachan, September 2011

Laboratoire Informatique de l'École Polytechnique (LIX), Palaiseau, September 2011

Laboratoire VERIMAG, Grenoble, April 2008

Laboratoire Lorrain de Recherche en Informatique et ses Applications (LORIA), Nancy, March 2008

OTHER
ACTIVITIES

Organiser of the **Computer Security Seminar**. Weekly meetings of the Formal Verification and Security group.

TEACHING

2007 - 2008.

Graph algorithms. BSc in Computer Science, TDs, 3rd year. ENS de Cachan, France.

Formal languages. BSc in Computer Science, TDs, 3rd year. ENS de Cachan, France.

Programming. BSc in Computer Science, TPs, 3rd year. ENS de Cachan, France.

2006 - 2007.

Algorithms and Complexity. BSc in Computer Science, TDs, 3rd year. Paris XII University, France.

Functional programming. BSc in Computer Science, TDs, 2nd year. Paris XII University, France.

2005 - 2006.

Graph Algorithms. MSc in Computer Science, TDs. Paris XII University, France.

Functional programming. BSc in Computer Science, TDs, 2nd year. Paris XII University, France.

2004 - 2005.

Graph Algorithms. MSc in Computer Science, TDs. Paris XII University, France.

Functional programming. BSc in Computer Science, TDs, 2nd year. Paris XII University, France.

2003 - 2004.

Imperative programming. BSc in Computer Science, TPs, 1st year. Paris XII University, France.