

Academic Curriculum Vitae

Yliès Falcone

Univ. Grenoble Alpes and Inria

Last updated: May 9, 2017

1 Identity

Title: Ph.D.

Last name: Falcone

First name: Yliès

Date of birth: December 9, 1981

Place of birth: Paris (France)

Professional Address:

Equipe CORSE - Équipe de recherche mixte Inria/LIG

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2 Professional Experience

Current Position: Associate Professor at Univ. Grenoble Alpes and Inria since September, 2011.

Previous experiences:

Starting date	Ending date	Institution	Status
Feb 2015	Aug 2015	Formal Systems Laboratory (Urbana-Champaign- USA)	Invited Researcher
Feb 2011	March 2011	NICTA Canberra	Invited Researcher
Apr 2011	Apr 2011	U of Manchester	Honorary Researcher
Dec 2009	Aug 2011	Inria	Research associate
Oct 2006	Nov 2009	Verimag Laboratory	Research Assistant
Oct 2006	Sept 2009	Grenoble University	Teaching Assistant
Oct 2006	Nov 2006	Formal Systems Laboratory (Urbana-Champaign- USA)	Research Engineer
July 2005	Aug 2005	EDF R&D	Engineer
July 2003	Aug 2003	Barclay's Bank PLC	System Engineer

3 Education

Ph.D. in Computer Science from University of Grenoble – Verimag (Nov 2009) - French Ministry funding

Title: Study and implementation of runtime validation techniques.

Adviser: Prof. Jean-Claude Fernandez.

(University of Grenoble does not provide distinctions to Ph.D. thesis)

Master in Computer Science from Grenoble University – Verimag (June 2006)

Specialty: Validation of critical systems.

Internship thesis: A formal framework for network security policy testing.

Adviser: Prof. Jean-Claude Fernandez.

Distinction: Good.

4 Research Domain: Runtime Verification and Monitoring

Key words: monitoring, runtime verification, runtime enforcement, debugging, component-based systems, distributed systems.

Monitoring comprises the set of theories, techniques, and tools for the formal verification of a system using runtime information. I am interested in proposing theories and techniques that can be applied to several sorts of systems such as component-based, distributed, and realtime systems, as well as systems used in industry and public systems.

5 Awards and Distinctions

- *Best Paper Award* from EDOC 2016 PC for the article “Decentralized Enforcement of Artifact Lifecycles”.
- *Best Paper Award* from Formal Methods Europe obtained in August 2012 for the article “Decentralised LTL Monitoring” at the conference FM 2012.
- *Best Paper Award* from IFIP obtained in November 2010 for the article “More Testable Properties” at the conference ICTSS’10. The article has been also invited for an extended version to the journal Software Tools for Technology Transfer.
- *Explorer Grant* from INRIA obtained in November 2010 in order to develop collaborative work on runtime verification.

6 International Publications and Scientific Production

6.1 Synthesis

Journal	Conferences	Proceedings	Book Chapters
17	43	2	1

6.2 Metrics (source: Google Scholar)

H-index: 15 .

i10-index: 24.

Maximal number of citations for a publication: 71 times.

Total number of citations: 841.

6.3 Selected Publications

Please see my Website for the full list.

1. Runtime enforcement of regular timed properties by suppressing and delaying events. Y. Falcone, T. Jéron, H. Marchand, S. Pinisetty. In SCP: Science of Computer Programming. Volume 123, 1 July 2016, Pages 2–41. DOI: 10.1016/j.scico.2016.02.008
2. *Runtime Verification of Component-Based Systems in the BIP Framework with Formally-Proved Sound and Complete Instrumentation.* Y. Falcone, M. Jaber, Th-H. Nguyen, M. Bozga, S. Bensalem. In SOSYM: SOfware and SYstem Modeling. February 2015, Volume 14, Issue 1, pp 173-199
3. *Decentralised LTL Monitoring.* A. Bauer, Y. Falcone. In FM’2012: 18th international symposium on Formal Methods.
This paper received the Best Paper Award from Formal Methods Europe.
4. *What can you Verify and Enforce at Runtime?* Y. Falcone, J-C. Fernandez, L. Mounier. In STTT: Software Tools for Technology Transfer – Special issue on Runtime Verification. June 2012, Vol. 14, Issue 3, pp 349-382.

7 Service to the Research Community

7.1 Scientific Leadership

- Representing France in the COST Action IC 1402 ARVI on runtime verification beyond monitoring.
- Chairing the Working Group on Core Runtime Verification in the COST Action IC 1402 ARVI on runtime verification beyond monitoring.
- Co-founded the competition on runtime verification and member of the steering committee.
- Co-organised the first international summer school on Runtime Verification attracting more than 50 students to the school.

7.2 co-Editing

- RV 2010: the first international conference on Runtime Verification.
- Guest co-editor of a special issue in Software Tools for Technology Transfer on Runtime Verification, in 2013.
- RV 2016: the sixteenth international conference on Runtime Verification.
- Guest co-editor of a special issue in Formal Methods in System Design on Runtime Verification, in 2017.

7.3 Chairing and Participating to Committees

7.3.1 Chairing and co-Chairing Program/Scientific Committees

SAC-SVT'17, RV'16, CRV'16, CRV'15, CSRV'14.

7.3.2 Participation to Program Committees

RV'17, TASE'17, iFM'17, PDP'17, DATE'17 – Topic E3, CARI'16, SSS'16, RV'16, Pre-Post'16, SAC-SVT'16, CRI'15, MSR'15, IPAC'15, PCODA'15, RV'15, SAC-SVT'15, SecTest'14, CSRV'14, FORTE'14, RV'14 (main track), RV'14 (tool track), RV'13, MSR'13, SecTest'13, Isola'12, RV'12, SecTest'12, SERP'11, RV'09.

7.3.3 Organizing Events

Co-organization and scientific coordination for the Cyber-Physical Systems Summer School in 2013 and 2014.

7.3.4 Participating to Organization Committees

SPIN'17, the 24th International SPIN Symposium on Model Checking of Software (Publicity Chair); IsoLA'16 (co-organization with Ezio Bartocci) for the track on “Runtime Verification and Enforcement: the Application Perspective”; CRV'16, the 3rd international Competition on Runtime Verification (co-Chair); CRV'15, the 2nd international Competition on Runtime Verification (Chair); Summer School on Cyber-Physical Systems 2014 (Chair); RV'14 (chair of the publicity committee); CSRV'14, the 1st International Competition on Software for Runtime Verification (co-Chair); ETAPS'14 (Publicity chair and assisting the general Organization chair); MAROC'13 (organization committee and PC co-chair); Summer School on Cyber-Physical Systems 2013; IsoLA'12 (co-organization with Lenore D. Zuck) for the track on “Runtime Verification: the Application Perspective”; AFADL'12 (Organization committee); RV'10 (Publicity Chair); CAV'09 (Organization committee); VVPS'09 (Web).

7.4 Reviewing

7.4.1 For Conferences and Journals

- Journals: ACM Transactions on Software Engineering and Methodology (TOSEM), Formal Aspects of Computing, ACM Transactions on Automatic and Control, Acta Informatica, Formal Methods in System Design, International Journal of Information and Computer Security, Science of Computer Programming, Software Tools for Technology Transfer, Journal of Systems and Software, ACM Transaction on Aspect-Oriented Development, The Computer Journal, ACM Transactions on Information and System Security, Elsevier Computer Review, Software Testing, Verification and Reliability.

- Conferences: TACAS'17, NFM'16, ASE'15, OOPSLA'15, FM'15, CAV'15, DAC'15, DATE'15, CAV'14, MBT'14, SAC-SVT'14, DATE'14, SSS'13, SecTest'13, FM'12, ICST'12, DATE'12, ICFEM'11, HSCC'11, FASE'11, WoDES'10, VECoS'10, TASE'10, CAV'09, RV'08.

7.4.2 For Projects

American University of Beirut projects (2015), Icelandic Center for Research projects (2014), American University of Beirut projects (2014), ANRT Ph.D. Grant (2013), ANR (French NSF) Grants (2013).

8 Departmental Activities

- Co-responsible of the first year of the International Master in Computer Science – MoSIG (2014 – ongoing).
- Mission Valorisation for Grenoble Informatics Lab (2014 – ongoing).
- Elected member of the concil of Grenoble Informatics Lab (2016-ongoing).
- Member of the educational board of Persyval-lab (2012 – 2014).
- In charge of elaborating research collaborations between the university of Grenoble and Galatasaray University (2012,-). Several visits to the university of Galatasaray, Istanbul, Turkey.
- Representing University of Grenoble at the Galatasaray Consortium, Istanbul, Turkey (November 2011)
- Member of Verimag council in 2008 and 2009: Ph.D. students representative.
- Webmaster of Verimag DCS Website (in 2007 and 2008): creating and managing a Website for 25 persons.

9 Ph.D. and Scientific Supervisions

Ph.D.	Master 2 and Engineers	Master 1 & Undergraduate
3 (4 ongoing)	4 (1 ongoing)	24 (1 ongoing)

9.1 Ph.D. Students

- Azzeddine Amiar, Ph.D. student (2011 - 2013), University of Grenoble. In the context of IO 32 project. Defended on November 27th, 2013. Co-supervision with Lydie du Bousquet.
- Srinivas Pinisetty, University of Grenoble. 2012 – 2014. In the context of the ANR Vacsim project. Defended on January 23rd, 2015. Co-supervision, with Thierry Jéron and Hervé Marchand.
- Abdurrahman Pektas, University of Grenoble and University of Galatasaray. 2013 - 2015. Co-supervision with Tankut Acarman and Jean-Claude Fernandez.
- Hosein Nazarpour, Univ. Grenoble Alpes. 2013 - 2017. Co-supervision with Saddek Bensalem.
- Antoine El-Hokayem, Univ. Grenoble Alpes. 2015-2018. I am supervising Antoine (alone) as I have asked for a special authorisation.
- Raphaël Jakse, Univ. Grenoble Alpes. 2016-2019. Co-supervision with Jean-François Mehaut.
- Fabian Gruber, Univ. Grenoble Alpes. 2016-2019. Co-supervision with Fabrice Rastello.

9.2 Master Students, Engineers, and U of Grenoble Excellence Internships

I have supervised or co-supervised more than 25 master, bachelor, and Grenoble excellence initiative students from University of Grenoble or abroad over the last years. Please see my website (http://www.ylies.fr/?page_id=169) for more details.

10 Teaching Activities

10.1 At Univ. Grenoble Alpes

As an associate professor, I perform at least 192 hours of teaching activities in front of students, every year. In France, these hours do not include surrounding teaching activities such as office hours and grading which are done by the course responsible.

Below is a summary of the lectures I am or was involved in.

- *Programming Languages and Compiler Design* in International Master (supervising, english lecture, and english tutorial).
- *Languages and Automata* in Bachelor year 2 (supervising, french lecture, english tutorial).
- *Advanced Testing Techniques* in Master year 2 (supervising, french lecture),
- *Introduction to Runtime Verification* in International Master year 2 (english lecture).
- *Object-oriented Design and Programming* in Master year 1 (french tutorial).
- *Introduction to Functional Programming* in Bachelor year 1 (english lecture and tutorial).
- *Reminders on proof techniques and logic for computer science* in International Master year one (lecture and tutorial).

10.2 Invited

In addition to the courses at U of Grenoble, I have given invited lectures and tutorials:

- *Runtime Verification and Enforcement for Realtime Systems*, in ETR Summer School, Paris, France, in 2017.
- *Introduction to Runtime Verification and Monitoring Android Systems* at American University of Beirut, Lebanon, in 2016.
- *Introduction to Runtime Verification* at Galatasaray University, Istanbul, Turkey, in 2016.
- *Introduction to Programming Languages and Compiler Design* at Galatasaray University, Istanbul, Turkey, in 2012-2016.
- *Programming Languages and Compiler Design* at Ecole Nationale Polytechnique de Yaoundé (Polytechnique School Yaoundé), CETIC, Yaoundé, Cameroon, in 2015.
- *Monitoring Android Systems* at ENSA Tetouan, Morocco, in 2014.
- *Introduction to Model Checking* at Universidad Pontificia Javeriana, Bogota, Colombia, in 2012.

11 Previous and Current Collaborations

Howard Barringer (University of Manchester, UK); Ezio Bartocci (Vienna University, Austria); Saddek Bensalem (Univ Grenoble Alpes, Verimag, France); Marius Bozga (CNRS, Verimag, France); Andreas Bauer (NEC, Germany); Jan Olaf Blech (Fortiss, Munich, Germany); Christian Colombo (University of Malta, Malta); Mickaël Delahaye (CEA Saclay, France); Jean-Claude Fernandez (Univ Grenoble Alpes, Verimag, France); Klaus Havelund (NASA JPL Pasadena, USA); Sylvain Hallé (University of Quebec), Canada; Mohamad Jaber (American University of Beirut, Lebanon); Thierry Jéron (Inria Rennes, France); Raphaël Khoury (University of Quebec), Canada; Hervé Marchand (Inria Rennes, France); Laurent Mounier (Verimag, Grenoble, France); Than-Hung Nguyen (Hanoi University of Sciences and Technology, Vietnam); Srinivas Pinisetty (Inria, Rennes, France); Giles Reger (University of Manchester, UK); Antoine Rollet (LaBRI, Bordeaux, France); Grigore Rosu (University of Illinois at Urbana-Champaign, USA); Yi Zhang (University of Illinois at Urbana-Champaign, USA); Lenore Zuck (University of Illinois at Chicago, USA).

References

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- [2] *Proceedings of the 52nd IEEE Conference on Decision and Control, CDC 2013, December 10-13, 2013, Firenze, Italy*. IEEE, 2013.
- [3] *2015 Euromicro Conference on Digital System Design, DSD 2015, Madeira, Portugal, August 26-28, 2015*. IEEE Computer Society, 2015.
- [4] *2015 World Congress on Internet Security, WorldCIS 2015, Dublin, Ireland, October 19-21, 2015*. IEEE, 2015.
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- [16] Ezio Bartocci and Yliès Falcone. Runtime verification and enforcement, the (industrial) application perspective (track introduction). In Margaria and Steffen [72], pages 333–338.

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