Curriculum Vitae

Mohamed Faouzi Atig
Professor in Computer Science
Head of Division of Computer Systems

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Degrees

March 2017	**Docent (comparable to Habilitation) in Computer Science** Department of Information Technology Uppsala University, Sweden
June 2010	**Ph.D. in Computer Science** University of Paris Denis Diderot (Paris 7), France. Advisor: Prof. Ahmed Bouajjani; co-advisor: Dr. Tayssir Touili. Phd defense on 7 June 2010 Honors: *Mention très honorable* (equivalent to first class Honors)
September 2006	**M.Sc. in Computer Science** Parisian Master of Research in Computer Science (Master Parisien de Recherche en Informatique in French) University of Paris Denis Diderot (Paris 7), France
July 2005	**Master in (IT) engineering** Ecole Polytechnique de Tunisie, Tunisia. *Major de Promotion* (equivalent to highest ranking student)

Post-doctoral fellowship

Jul. 2010 – Feb. 2012	**Post-Doctoral researcher** Department of Information Technology, Uppsala University, Sweden

Employment

Jun. 2018 – now	**Professor** Department of Information Technology, Uppsala University, Sweden. (50% research and 50% administration)
Jun. 2018 – now	**Senior Lecturer** Department of Information Technology, Uppsala University, Sweden. (50% research, 30% teaching and 20% administration)

Jun. 2014 – May 2018	**Associate Senior Lecturer**

Jun. 2014 – May 2018 **Associate Senior Lecturer**
Department of Information Technology, Uppsala University, Sweden.
(75% research and 25% teaching)
I was 1 of 10 successful candidates out of around 550 applications in a call open to all natural and engineering sciences

Mar. 2012 – May 2018 **Researcher**
Department of Information Technology, Uppsala University, Sweden.
(80% research and 20% teaching)
On leave from June 2014

HOSTED POST-DOCS

2014– 2016 **Aiswarya Cyriac** (Uppsala University)

SUPERVISION OF PHD STUDENTS

2022– now **Stephan Spengler** (Uppsala University)
Subject: *Verification of programs running under weak memory models.*
Role: main supervisor. Expected defence year 2027.

2021– now **Samuel Grahn** (Uppsala University)
Subject: *Methodology for Verification of Concurrent Software.*
Role: co-supervisor. Expected defence year 2026.

2019– now **Sarbojit Das** (Uppsala University)
Subject: *Verification of Event-Driven Programs.*
Role: co-supervisor. Expected defence year 2024.

2015– 2021 **Bui Phi Diep** (Uppsala University)
Subject: *On the Verification of Concurrent Programs.*
Role: main supervisor. Expected defence January/February 2021.

2014– 2019 **Amendra Shrestha** (Uppsala University)
Subject: *Security in Social Media and Large Scale Databases.*
Role: co-supervisor. Defended on 17/05/2019.

2013– 2019 **Tuan Phong Ngo** (Uppsala University)
Subject: *Verification of Weak Memory Models.*
Role: main supervisor. Defended on 21/01/2019.

2010– 2018 **Othmane Rezine** (Uppsala University)
Subject: *Verification of Sensor and Ad-Hoc Networks.*
Role: co-supervisor. Defended on 12/01/2018.

2010– 2016 **Carl Leonardsson** (Uppsala University)
Subject: *Efficient Techniques For the Verification of Concurrent Programs.*
Role: co-supervisor. Defended on 7/11/2016.

2010– 2018 **Yunyun Zhu** (Uppsala University)
Subject: *Verification of Cache Coherence Protocols.*
Role: co-supervisor. Defended on 30/05/2018.

Supervision of MS Students (Selection)

2022 **Yacoub G. Hendi** (Uppsala University)
Subject: *Parameterized Verification under TSO with Data Types*

2020 **Erik Larsson** (Uppsala University)
Subject: *Transforming TSO correctness problems to SC*

2020 **Meriame El Abdellaoui** (Mohammed VI Polytechnic University, Morocco)
Subject: *Constrained Automata*

2018 **Abhishek De** (Chennai Mathematical Institute, Chennai, India)
Subject: *Robustness checking for Programs with Self-Invalidation and Self-Downgrade*

2014 **Bui Phi Diep** (Vietnam National University Hanoi)
Subject: *Efficient Solver for String Equations*

2013 **Mehdi Seyed Salehi** (Sharif University of Technology)
Subject: *The Emptiness Problem for Regular Availability Expressions*

2013 **Tuan Phong Ngo** (Uppsala University)
Subject: *Ensuring the correctness of TSO Memory Models*

2011 **Jari Stenman** (Uppsala University)
Subject: *Approximating the Shuffle of Context-free Languages to Find Bugs in Concurrent Recursive Programs.*

Supervision of Undergraduate Students (Selection)

2019 **Adwait Godbole** (Indian Institute of Technology, Bombay (IITB))
Subject: *The Decidability of Verification under Promising 2.0*

2018 **Shaan Vaidya** (Indian Institute of Technology, Bombay (IITB))
Subject: *Verification of Communicating Timed Systems.*

2018 **Jatin Arora** (Indian Institute of Technology, Bombay (IITB))
Subject: *Verification of programs running under Release-Acquire Sematics*

2013 **Magnus Lång** (Uppsala University)
Subject: *Verification of Concurrent Programs running under PSO.*

2013 **Gaurav Saini** (IIT Kanpur)
Subject: *Analysis of Message Passing Programs using SMT-Solvers.*

2013 **Subham Modi** (IIT Ropar)
Subject: *Analysis of Message Passing Programs using SMT-Solvers.*

2012 **Kristiina Ausmees** (Uppsala University)
Subject: *Zone-Based Reachability Analysis of Dense-Timed Pushdown Automata.*

2011 **Paulin Fournier** (University of Rennes 1)
Subject: *Timed asynchronous programs.*

Appointments and Board Participation

2023– now   *Head of Division of Computer Systems, Department of Information Technology, Uppsala University*

2020– 2023   *Director of Undergraduate Studies, Department of Information Technology, Uppsala University*

2018– 2021   *Coordinator of the Master Programme in Embedded Systems, Department of Information Technology, Uppsala University*

2017– 2019   *Co-coordinator of the Master Programme in Concurrent and Parallel Programming, Department of Information Technology, Uppsala University*

2017– 2020   *Coordinator of the Automated Reasoning Arena, Department of Information Technology, Uppsala University*

2023   *External reviewer for European Research Council to the ERC Consolidator Grant 2022*

2018   *Reviewer of the PhD thesis of Michail Kokologiannakis, Department of Computer Science, TU Kaiserslautern, Germany*

2020   *Peer reviewer for the Independent Research Fund, Denmark*

2019   *Member of the grading committee of Ph. D., Petter Ericson, Umeå University, Sweden*

2018   *Reviewer of the PhD thesis of Marcio Diaz, University Denis Diderot, France*

2015– 2018   *Co-organiser of the UPMARC Multicore Computing Summer School, Department of Information Technology, Uppsala University*

Distinctions and Awards

2019	Young Researcher Award in Computing from the Tunisian Academy of Sciences award, Letters and Arts - Beit Al-Hikma.
2006 – 2009	PhD Research Grant from the French Government.
2000 – 2006	Excellence Grant from the Tunisian Government.

RESEARCH GRANTS

2020-2021	Project member for the *Verification of Multi-Core Real-Time Embedded Software Systems*. Supported by VR, the Swedish Research Council (Project Grant for Indo-Swedish joint network). Funding level 0.7 MSEK.
2019	FRÖ Travel Grant. Supported by the Institut Français de Suède. Funding level 750 Euro.
2018 – 2021	Project leader for *Verification of Consistency Models*. Supported by VR, the Swedish Research Council (Project Grant for Junior Researchers). Funding level 3.58 MSEK. *(Success rate $\simeq$ 21%)*
2013 – 2016	Project leader for *Verification of Weak Memory Models*. Supported by VR, the Swedish Research Council (Project Grant for Junior Researchers). Funding level 3.4 MSEK. *(Success rate $\simeq$ 11%)*
2009-2018	Project member for the *Verification* track in UPMARC, the *Uppsala Programming for Multicore Architectures Research Centre*. Linnaeus competence centre supported by VR, the Swedish Research Council. Total funding level 60 MSEK.
2015-2019	External Collaborator for the *Energy Efficient Control project*. Supported by EPSRC, the UK's agency for funding research in engineering and the physical sciences. Total funding level 429,107 GBP.
2014 – 2017	Project member for the *Verification of Concurrent Software*. Supported by VR, the Swedish Research Council (Project Grant for Research collaboration India-Sweden). Funding level 0.75 MSEK.
2014	Starting grant supported by the Faculty of Science and Technology, Uppsala University. Total funding level 0.5 MSEK.
2012	Grant funded by the Department of Information Technology for research collaboration with Prof. K Narayan Kumar (India), Prof. Roland Meyer (Germany) and Dr. Pierre Ganty (Spain). Total funding level 150.000 SEK.

RESEARCH-RELATED ACTIVITIES

Publications	89 peer-reviewed publications: 75 international conferences and workshops and 14 in journals. For the current list of publications, see the DBLP entry at http://www.informatik.uni-trier.de/~ley/pers/hd/a/Atig:Mohamed_Faouzi.html

2024   Programme Committee member of the 39th Annual ACM/IEEE Symposium on Logic in Computer Science (LICS 2024) (LICS 2024)

2024   Programme Committee member of the Object-Oriented Programming, Systems, Languages, and Applications Conference (OOPSLA 2024)

2023   Programme Committee member of the 21st International Symposium on Automated Technology for Verification and Analysis (ATVA 2023)

2023   Programme Committee member and workshop chair of the 17th International Workshop on Verification and Evaluation of Computer and Communication Systems (VECoS 2023)

2023   Programme Committee member of the 35th International Conference on Computer Aided Verification (CAV 2023)

2022   Programme Committee member of the 23rd International Conference on Verification, Model Checking, and Abstract Interpretation (VMCAI 2022).

2022   Programme Committee member of the 42nd Foundations of Software Technology and Theoretical Computer Science (FSTTCS 2022)

2022   Programme Committee member of the International Conference on Networked Systems (Netys 2022)

2022   Programme Committee member of the 16th International Workshop on Verification and Evaluation of Computer and Communication Systems (VECoS 2022)

2022   Programme Committee member of the 13th International Symposium on Games, Automata, Logics, and Formal Verification (GandALF 2022)

2022   Programme Committee member of the 16th International workshop on Reachability Problems (RP 2022)

2021   Programme Committee member of the 12th International Symposium on Games, Automata, Logics, and Formal Verification (GandALF 2021)

2021   Programme Committee member of the 15th International Workshop on Verification and Evaluation of Computer and Communication Systems (VECoS 2021)

2021   Programme Committee member of the 19th International Symposium on Automated Technology for Verification and Analysis (ATVA 2021)

2021   Programme Committee member of the 48th ACM SIGPLAN Symposium on Principles of Programming Languages (POPL 2021)

2021   Programme Committee member of the International Conference on Networked Systems (Netys 2021)

2021   Programme Committee member of the 31st International Conference on Concurrency Theory (CONCUR 2021)

2020   Programme Committee member of the International Conference on Networked Systems (Netys 2020)

2020   Programme Committee member of the 18th International Symposium on Automated Technology for Verification and Analysis (ATVA 2020)

2020   Programme Committee member of the 11th International Symposium on Games, Automata, Logics, and Formal Verification (GandALF 2020)

2020   Programme Committee member of the 45th International Symposium on Mathematical Foundations of Computer Science (MFCS 2020)

2020   Programme Committee member of the 14th Summer School on Modelling and Verification of Parallel Processes (MOVEP 2020)

2019   Programme Committee member of the 10th International Symposium on Information and Communication Technology (SoICT 2019)

2019   Programme Committee member of the 17th International Symposium on Automated Technology for Verification and Analysis (ATVA 2019)

2019   Programme Committee member of the 19th International Conference on Application of Concurrency to System Design 2019 (ACSD 2019)

2019   Programme Committee member of the InternationalSymposium on Dependable Software Engineering Theories, Tools and Applications 2019 (SETTA 2019)

2019   Co-chair of the International Conference on Networked Systems (Netys 2019)

2019   Programme Committee member of the 13th International Workshop on Verification and Evaluation of Computer and Communication Systems (VECoS 2019)

2018   Main Organiser of UPMARC Summer School 2018, Uppsala, Sweden.

2018   Programme Committee member of the 6th conference on Highlights of Logic, Games, and Automata (Highlights 2018)

2018   Programme Committee member of the Ninth International Symposium on Information and Communication Technology (SoICT 2018)

2018   Programme Committee member of the Ninth International Symposium on Games, Automata, Logics, and Formal Verification (GandALF 2018)

2018   Programme Committee member of the 2018 European Intelligence and Security Informatics Conference (EISIC 2018)

2018	Programme Committee member of the 14th African Conference on Research in Computer Science and Applied Mathematics (CARI 2018)
2018	Programme Committee member of the 18th International Conference on Application of Concurrency to System Design 2018 (ACSD 2018)
2018	Co-chair of the 12th International Workshop on Verification and Evaluation of Computer and Communication Systems (VECoS 2018)
2017	Programme Committee member of the Eighth International Symposium on Information and Communication Technology (SoICT 2017)
2017	Main Organiser of UPMARC Summer School 2017, Uppsala, Sweden.
2017	Programme Committee member of the 2017 European Intelligence and Security Informatics Conference (EISIC 2017)
2017	Programme Committee member of the 28th International Conference on Concurrency Theory (CONCUR 2017)
2017	Programme Committee member of the 15th International Symposium onAutomated Technology for Verification and Analysis (ATVA 2017)
2017	Programme Committee member of the 17th International Conference on Application of Concurrency to System Design 2017 (ACSD 2017)
2017	Programme Committee member of the 11th International Workshop on Verification and Evaluation of Computer and Communication Systems (VECoS 2017)
2017	Programme Committee member of the 18th International Conference on Verification, Model Checking, and Abstract Interpretation (VMCAI 2017).
2017	Tutorials and workshops co-chair of the European Joint Conferences on Theory and Practice of Software (ETAPS 2017).
2017	Programme Committee member of the 20th International Conference on Foundations of Software Science and Computation Structures (FoSSaCS 2017).
2016	Main Organiser of UPMARC Summer School 2016, Uppsala, Sweden.
2016	Programme Committee member of the 2016 European Intelligence and Security Informatics Conference (EISIC 2016)
2016	Programme Committee member of the Seventh International Symposium on Information and Communication Technology (SoICT 2016)
2016	Programme Committee member of the 10th International Workshop on Verification and Evaluation of Computer and Communication Systems (VECoS 2016)

2016   Programme Committee member of the 16th International Conference on Application of Concurrency to System Design 2016 (ACSD 2016)

2016   Programme Committee member of the International Conference on Networked Systems (Netys 2016)

2016   External Reviewing Committee member of the 43rd Annual ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages (POPL 2016)

2015   Co-Organiser of UPMARC Summer School 2015, Uppsala, Sweden.

2015   Main Organiser of the first UPMARC International workshop on Memory Models (MM'2015)

2015   Programme Committee member of 5th IFIP International Conference on Computer Science and Its Applications (CIIA 2015)

2015   Programme Committee member of the 2015 European Intelligence and Security Informatics Conference (EISIC 2015)

2015   Programme Committee member of the Sixth International Symposium on Information and Communication Technology (SoICT 2015)

2014   Co-Organiser of the CP meets Verification 2014 workshop

2014   Programme Committee member of the 2014 IEEE Joint Intelligence and Security Informatics Conference (ISI-EISIC 2014)

2014   Programme Committee member of the fifth International Symposium on Information and Communication Technology (SoICT 2014)

2014   Programme Committee member of the 16th International Workshop on Verification of Infinite-State Systems (Infinity 2014)

2013   Programme Committee member of the 33rd Foundations of Software Technology and Theoretical Computer Science (FSTTCS 2013)

2013   Programme Committee member and co-organiser of the 7th International workshop on Reachability Problems (RP 2013)

2013   Programme Committee member of the 2013 European Intelligence and Security Informatics Conference (EISIC 2013)

2013   Programme Committee member of the 15th International Workshop on Verification of Infinite-State Systems (Infinity 2013)

2012   Co-chair of the 14th International Workshop on Verification of Infinite-State Systems (Infinity 2012)

2011	Programme Committee member of the 13th International Workshop on Verification of Infinite-State Systems (Infinity 2011)
Sub-reviewer	Numerous reviews for competitive and prestigious conferences and journals such as POPL, LICS, CAV, ICALP, STACS, TACAS, LMCS, TCS, DIST. (Around 8-12 reviews each year)

INVITED SPEAKER (SELECTION)

2022	Keynote Speaker at the 20th International Symposium on Automated Technology for Verification and Analysis (ATVA 2022).
2021	Invoted Speaker at Highlights Spotlight Workshop on Transducers 2021.
2018	Tutorials Invited speaker at CONFESTA 2018 (joint event comprising the international 2018 conferences CONCUR, FORMATS, QEST, and SETTA).
2018	*Verification of Distributed Systems (VDS 2018),* Essaouira, Morocco
2016	*Algorithmic Verification of Real-Time Systems Workshop (AVeRTS 2016),* Chennai, India
2015	*International Workshop on Verification of Infinite-State Systems (Infinity 2015),* Bangalore, India
2015	*Workshop on Parameterized Verification (PV 2015),* Madrid, Spain
2015	*Chemistry of Concurrent and Distributed Programming II (CCDP 2015),* Agadir, Marocco
2015	*Automata, Concurrency and Timed Systems Workshop (ACTS 2015),* Chennai, India
2014	*International Symposium on Information and Communication Technology (SoICT 2014),* Hanoi, Vietnam
2012	*Post-Conference Workshop on Verification of Infinite-State Systems (VISS 2012),* Hyderabad, India

TEACHING EXPERIENCE

2020 – 2024	**Automata and Computability,** Mohammed VI Polytechnic University, Morocco: Course Manager
2020 – 2021	**Algorithms and Data Structures I,** Uppsala University: Course Manager

2020 – 2021 **Programming Theory,** Uppsala University: Course Manager

2019 – 2020 **Automata, computability,** Mohammed VI Polytechnic University, Morocco: Course Manager

2019 – 2020 **Algorithms and Data Structures I,** Uppsala University: Course Manager

2019 – 2020 **Programming Theory,** Uppsala University: Course Manager

2018 – 2019 **Algorithms and Data Structures I,** Uppsala University: Course Co-Manager

2018 – 2019 **Programming Theory,** Uppsala University: Course Manager

2017 – 2018 **Programming Theory,** Uppsala University: Course Manager

2017 – 2018 **Automata and Logic in IT System Modelling,** Uppsala University: Course Manager

2016 – 2017 **Automata and Logic in IT System Modelling,** Uppsala University: Course Manager

2016 – 2017 **Algorithms and Data Structures I,** Uppsala University: Course Manager

2015 – 2016 **Algorithms and Data Structures I,** Uppsala University: Course Manager

2015 – 2016 **Programming Theory,** Uppsala University: Course Manager

2014 – 2015 **Algorithms and Data Structures I,** Uppsala University: Course Manager

2014 – 2015 **Programming Theory,** Uppsala University: Course Manager

2013 – 2014 **Algorithms and Data Structures I,** Uppsala University: Course Manager

2013 – 2014 **Programming Theory,** Uppsala University: Course Manager

2012 – 2013 **Programming Theory,** Uppsala University: Course Manager

2011 – 2012 **Programming Theory,** Uppsala University: Course Manager

2008 – 2009 **Numerical Analysis,** University of Paris7: Teaching Assistant

2008 – 2009 **Automata Theory,** University of Paris 7: Teaching Assistant

2007 – 2008 **Programming Using Java,** University of Paris 7:Teaching Assistant

2007 – 2008 **Computer Concepts,** University of Paris 7: Teaching Assistant

2006 – 2007 **Java Programming,** University of Paris 7: Teaching Assistant

LANGUAGES

Arabic	Native Speaker
French	Fluent written, read, spoken
English	Good written, read, spoken
Swedish	Beginner