Filip Marković, PhD

Curriculum Vitae

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Academic Appointments

March 2025 – *present* — **University of Southampton** (Southampton, United Kingdom 🇬🇧)
Lecturer (∼Assistant Professor)

July 2022 – Feb. 2025 — **Max Planck Institute for Software Systems** (Kaiserslautern, Germany 🇩🇪)
Postdoctoral Researcher

July 2020 – June 2022 — **Mälardalen University** (Västerås, Sweden 🇸🇪)
Postdoctoral Researcher

Education

2015 – 2020 — **Mälardalen University** (Västerås, Sweden 🇸🇪)
PhD in Computer Science

2015 – 2018 — **Mälardalen University** (Västerås, Sweden 🇸🇪)
Licentiate in Computer Science

2014 – 2015 — **Mälardalen University** (Västerås, Sweden 🇸🇪)
MSc in Computer Science

2013 – 2014 — **Mediterranean University** (Podgorica, Montenegro 🇲🇪)
Specialist in Information Technologies

2010 – 2013 — **Mediterranean University** (Podgorica, Montenegro 🇲🇪)
BSc in Information Technologies

Awards

2025 — **Outstanding Reviewer Award**
IEEE Real-Time and Embedded Technology and Applications Symposium (RTAS), CORE Rank: **A**

2024 — **Outstanding Paper Award**
IEEE Real-Time Systems Symposium (RTSS), CORE Rank: **A***

2022 — **Best Presentation Award**
IEEE Real-Time Systems Symposium (RTSS), CORE Rank: **A***

Best Poster Award
Max Planck Institute for Software Systems (MPI-SWS)
Awarded by MPI-SWS colleagues through an open public vote during the institute retreat.

2021 — **Outstanding Paper Award**
Euromicro Conference on Real-Time Systems (ECRTS), CORE Rank: **A**

2015 — **PhD Scholarship**
Awarded by Erasmus Mundus+ (European Commission) following a competitive selection process. My PhD proposal was selected to be funded with approximately €85000 *from* 2015 *to* 2018.

2014 — **MSc Scholarship**
Awarded by Erasmus Mundus (European Commission) following a competitive selection process. The MSc studies were funded with approximately €10000.

Other prior awards: Scholarship for the ***Best Student in Montenegro*** (2013), Best CS Student of Municipality of Podgorica (2013), Scholarship for Talented Students of Montenegro (2011–2013)

Research Experience

2025 – present

University of Southampton, *Lecturer (∼Assistant Professor)*

- ◇ Contributing to the design and development of LiME, a tool for automated inference of real-time task models from unmodified Linux workloads for latency debugging, validation of timing behaviour and continuous monitoring
- ◇ Ongoing collaboration with NASA Ames Research Center where LiME is being integrated in their safety procedures and timing validation pipeline
- ◇ Contributing to the *Antarctic Demonstrator for the Advanced Particle-astrophysics Telescope* (ADAPT) project, developing AstroRTS, a real-time analysis and scheduling framework for the timely observation of transient astronomical phenomena, such as gamma-ray bursts, novae and supernovae
- ◇ Ongoing collaboration with TTTech Auto (part of NXP) on probabilistic scheduling control and analysis for networked real-time systems

Industrial Collaborations

NASA Ames Research Center (USA)

TTTech Auto, part of NXP (Austria)

Academic Collaborations

Washington University in Saint Louis (USA)

Max Planck Institute for Software Systems (Germany)

TU Dortmund (Germany)

Scuola Superiore Sant'Anna (Italy)

Mälardalen University (Sweden)

2022 – 2025

Max Planck Institute for Software Systems, *Postdoctoral Fellow*
Advisor: *Björn B. Brandenburg*

- ◇ Contributed to research in probabilistic scheduling analysis of real-time and embedded systems as part of the ERC Starting Grant project *A Theory-Oriented Real-Time Operating System for Temporally Sound Cyber-Physical Systems* (TOROS)
- ◇ Initiated a research direction on distribution-agnostic and correlation-aware timing analysis (recognised with the Outstanding Paper Award at RTSS 2024)
- ◇ Initiated a research direction on correlation-tolerant and rigorous Rocq-verified probabilistic analysis of real-time systems (RTSS 2023)

Collaborations

ONERA The French Aerospace Lab

Saarland University (Germany)

TU Dortmund (Germany)

Scuola Superiore Sant'Anna (Italy)

Mälardalen University (Sweden)

Research Experience (continued)

2020 – 2022 **Mälardalen University**, *Postdoctoral Fellow*
School of Innovation, Design and Technology (IDT)
Division of Networked and Embedded Systems (NES)
Advisor: *Thomas Nolte*

- ◇ Contributed to research in efficient and practical probabilistic analysis of real-time and embedded systems conducted in the project *Practical Probabilistic Timing Analysis of Real-Time Systems* (PARIS)
- ◇ Contributed to the state of the art in real-time systems by proposing an optimal polynomial-time distribution down-sampling and state-space reduction for $\mathcal{O}(n \log n)$ circular convolution, enabling space and time reductions in probabilistic analysis (recognised with the Outstanding Paper Award at ECRTS 2021)
- ◇ Advanced analytical approximations in probabilistic timing analysis by applying the Berry–Esseen theorem to derive safe distribution approximations and efficient quantile computation, achieving memory-efficiency improvements over state-of-the-art convolution-based methods (Best Presentation Award at RTSS 2022)
- ◇ Contributed to the project *Federated Choreography of an Integrated Embedded Systems Software Architecture* (FIESTA)., conducted with several industrial partners: ABB, Arcticus Systems, Hitachi, Percepio, and Volvo Construction Equipment

Collaborations

ABB (CRC Sweden)

Arcticus Systems (Sweden)

Hitachi Energy (Sweden)

Percepio (Sweden)

Volvo Construction Equpment (Sweden)

2015 – 2020 **Mälardalen University**, *PhD student*
School of Innovation, Design and Technology (IDT)
Division of Computer Science and Engineering (CSE)
Thesis: *"Preemption-Delay Aware Schedulability Analysis of Real-Time Systems"*
Advisors: *Jan Carlson*, *Radu Dobrin*, and *Björn Lisper*

- ◇ Conducted doctoral research in the field of real-time scheduling and cache-aware timing analysis, focusing on limited-preemptive scheduling strategies (algorithms that manage the interruption of threads at designated preemption points)
- ◇ Contributed to the state of the art in real-time systems by improving schedulability tests through more accurate cache-behaviour modelling, thereby reducing false negatives

Collaborations

University of Augsburg (Germany)

Ericsson (Sweden)

Research Experience (continued)

2015 – 2018 **Mälardalen University**, *Licentiate**
School of Innovation, Design and Technology (IDT)
Division of Computer Science and Engineering (CSE)
Thesis: *"Improving the Schedulability of Real-Time Systems under Fixed Preemption Point Scheduling"*
Advisors: *Jan Carlson*, *Radu Dobrin*, and *Björn Lisper*

- ◇ Investigated timing analysis concerning cache-related preemption delay in uni-core and multicore systems, employing limited-preemptive scheduling strategies
- ◇ Contributed to the state of the art in real-time systems by improving the estimation of the influence of cache delays when employing fixed-preemption points

2014 – 2015 **Mälardalen University**, *MSc student*
School of Innovation, Design and Technology (IDT)
Division of Computer Science and Engineering (CSE)
Thesis: *"Automated Test Generation for Structured Text Language Using UPPAAL Model Checker"*
Advisors: *Adnan Čaušević* and *Eduard Paul Enoiu*

- ◇ Conducted MSc research focused on creating a test case generation framework for Structured Text (ST) language, used in PLC programming, employing the UPPAAL model checker to improve the logic coverage
- ◇ Collaborated with Bombardier, which led to improvements in test generation efficiency and resource utilization, providing a viable approach for industry adoption

Collaborations BOMBARDIER

Bombardier (CRC Sweden)

* The licentiate degree is a post-graduate, research degree, situated above the MSc degree and below the PhD degree. It is an intermediate academic qualification awarded in Sweden during PhD studies.

Research Publications

All publications are presented in **reverse chronological order**.

Disclaimer: In the field of Computer Science, specifically within Real-time and Embedded Systems, high-quality conference publications are valued more than journal articles.

Note on the provided rankings: Conference rankings are reported according to the CORE rankings as of the date of publication for each entry. These rankings categorize conferences as follows:

- A* – flagship conference and a leading venue within a discipline,
- A – excellent conference and highly respected within a discipline,
- B – good to very good conference and well-regarded within a discipline,
- C – other recognized conferences that meet minimum standards.

Table I: Summary of high-quality conference publications and awards over time

Time frame	Conference ranks	Awards
After PhD [2021, 2025]	A* A* A* A* A* A* A A A A B	OPA OPA BPA ORA
During PhD [2015, 2020]	A A B	

OPA - Outstanding Paper Award, BPA - Best Presentation Award, ORA - Outstanding Reviewer Award

CSRankings score: Filip Markovic 0001 EMBEDDED **10** (#Pubs) 2.3 (#Adj.)

#Pubs stands for the total number of top conference publications (DBLP)
#Adj stands for the paper count divided by number of co-authors

Peer-reviewed conference contributions

1. Authors: D. Wang, M. Sudvarg, **F. Marković**, J. Buhler, S. Baruah, and G. Kehne
   Title: *"Probabilistic Response-Time-Aware Search for Transient Astrophysical Phenomena"*
   Venue: The 46th IEEE Real-Time Systems Symposium (RTSS)
   Year: 2025
   CORE rank: A*
   Accept. rate: 22%

2. Authors: B. B. Brandenburg, C. Courtaud, **F. Marković**, and B. Ye
   Title: *"LiME: The Linux Real-Time Task Model Extractor"*
   Venue: The 31st IEEE Real-Time and Embedded Technology and Applications Symposium (RTAS)
   Year: 2025
   CORE rank: A
   Accept. rate: 27%
   Notes: **Authors listed in alphabetical order**

3. Authors: A. Friebe, T. Cucinotta, **F. Marković**, A. V. Papadopoulos, and T. Nolte
   Title: *"Nip It In the Bud: Job Acceptance Multi-Server"*
   Venue: The 31st IEEE Real-Time and Embedded Technology and Applications Symposium (RTAS)
   Year: 2025
   CORE rank: A
   Accept. rate: 27%

4
Authors: **F. Marković**, G. von der Brüggen, M. Günzel, J.-J. Chen, and B. B. Brandenburg
Title: *"A Distribution-Agnostic and Correlation-Aware Analysis of Periodic Tasks"*
Venue: The 45th IEEE Real-Time Systems Symposium (RTSS)
Year: 2024
CORE rank: A*
Accept. rate: 23%
Notes: **Outstanding Paper Award**

5
Authors: M. Zini, **F. Marković**, D. Casini, A. Biondi, and B. B. Brandenburg
Title: *"In Search of Butterflies: Exceedance Analysis for Real-Time Systems under Transient Overload"*
Venue: The 45th IEEE Real-Time Systems Symposium (RTSS)
Year: 2024
CORE rank: A*
Accept. rate: 23%

6
Authors: S. Bozhko, **F. Marković**, G. von der Brüggen, and B. B. Brandenburg
Title: *"What Really is pWCET? A Rigorous Axiomatic Proposal"*
Venue: The 44th IEEE Real-Time Systems Symposium (RTSS)
Year: 2023
CORE rank: A*
Accept. rate: 25%

7
Authors: A. Friebe, **F. Marković**, A. V. Papadopoulos, and T. Nolte
Title: *"Continuous-Emission Markov Models for RT Applications: Bounding Deadline Miss Probabilities"*
Venue: The 29th IEEE Real-Time and Embedded Technology and Applications Symposium (RTAS)
Year: 2023
CORE rank: A
Accept. rate: 27%

8
Authors: **F. Marković**, P. Roux, S. Bozhko, A. V. Papadopoulos, and B. B. Brandenburg
Title: *"CTA: A Correlation-Tolerant Analysis of the Deadline-Failure Probability of Dependent Tasks"*
Venue: The 44th IEEE Real-Time Systems Symposium (RTSS)
Year: 2023
CORE rank: A*
Accept. rate: 25%
Notes: **First solution to a longstanding open problem from 1995**

9
Authors: **F. Marković**, A. V. Papadopolous, and T. Nolte
Title: *"Analytical Approximations in Probabilistic Analysis of Real-Time Systems"*
Venue: The 43rd IEEE Conference on Real-Time Systems Symposium (RTSS)
Year: 2022
CORE rank: A*
Accept. rate: 29%
Notes: **Best Presentation Award**

10
Authors: A. Friebe, **F. Marković**, A. V. Papadopoulos, and T. Nolte
Title: *"Adaptive Runtime Estimate of Task Execution Times using Bayesian Modeling"*
Venue: Int. Conf. on Embedded and Real-Time Computing Systems and Applications (RTCSA)
Year: 2021
CORE rank: B
Accept. rate: 42%

11
Authors: **F. Marković**, A. V. Papadopolous, and T. Nolte
Title: *"On the Convolution Efficiency for Probabilistic Analysis of Real-Time Systems"*
Venue: The 33rd Euromicro Conference on Real-Time Systems (ECRTS)
Year: 2021
CORE rank: A
Accept. rate: 19%
Notes: **Outstanding Paper Award**

12 Authors: S. M. Salman, S. Mubeen, **F. Marković**, A. V. Papadopolous, and T. Nolte
Title: *"Scheduling Elastic Applications in Compositional Real-Time Systems"*
Venue: The 26th IEEE Conference on Emerging Technologies and Factory Automation (ETFA)
Year: 2021
CORE rank: Not available
Accept. rate: 66%

13 Authors: **F. Marković**, J. Carlson, and R. Dobrin
Title: *"Cache-Aware Response Time Analysis for Real-Time Tasks with Fixed Preemption Points"*
Venue: The 26th IEEE Real-Time and Embedded Technology and Applications Symposium (RTAS)
Year: 2020
CORE rank: A
Accept. rate: 27%
Notes: *Part of PhD thesis*

14 Authors: **F. Marković**, J. Carlson, R. Dobrin, and S. Altmeyer
Title: *"Improving the Accuracy of Cache-Aware Response Time Analysis using Preemption Partitioning"*
Venue: The 32nd Euromicro Conference on Real-Time Systems (ECRTS)
Year: 2020
CORE rank: A
Accept. rate: 34%
Notes: *Part of PhD thesis*

15 Authors: **F. Marković**, J. Carlson, and R. Dobrin
Title: *"Improved Cache-Related Preemption Delay Estimation for Fixed Preemption Point Scheduling"*
Venue: The 23rd International Conference on Reliable Software Technologies (Ada-Europe)
Year: 2018
CORE rank: B
Accept. rate: 37%
Notes: *Part of PhD thesis*

16 Authors: **F. Marković**, J. Carlson, R. Dobrin, B. Lisper, and A. Thekkilakattil
Title: *"Probabilistic Response Time Analysis for Fixed Preemption Point Selection"*
Venue: The 13th IEEE International Symposium on Industrial Embedded Systems (SIES)
Year: 2018
CORE rank: Not available
Accept. rate: Not available

Peer-reviewed original articles

1 Authors: A. Friebe, **F. Marković**, A. V. Papadopoulos, and T. Nolte
Title: *"A Comparison of Partitioning Strategies for Fixed Points Based Limited Preemptive Scheduling"*
Journal: Real-Time Systems
Year: 2024
Volume: vol. 60 / no. 3
Impact Fac.: 1.3

2 Authors: **F. Marković**, J. Carlson, and R. Dobrin
Title: *"A Comparison of Partitioning Strategies for Fixed Points Based Limited Preemptive Scheduling"*
Journal: IEEE Transactions on Industrial Informatics
Year: 2019
Volume: vol. 15 / no. 2
Impact Fac.: 10.215
Notes: *Part of PhD thesis*

Peer-reviewed workshop contributions

1

Authors:	**F. Marković**, J. Carlson, and R. Dobrin
Title:	*"Tightening the Bounds on Cache-Related Preemption Delay in Fixed Preemption Point Scheduling"*
Venue:	The 17th International Workshop on Worst-Case Execution Time Analysis (WCET)
Year:	2017
CORE rank:	Not available
Accept. rate:	71%
Notes:	*Part of PhD thesis*

Peer-reviewed research artifacts

1

Authors:	**F. Marković**, A. V. Papadopoulos, and T. Nolte
Title:	*"On the Convolution Efficiency for Probabilistic Analysis of Real-Time Systems (Artifact)"*
Journal:	Dagstuhl Artifacts Series
Year:	2021
Volume:	vol. 7 / 1
Impact Fac.:	Not available

Theses

1

Author:	**F. Marković**
Title:	*"Preemption-Delay Aware Schedulability Analysis of Real-Time Systems"*
School:	Mälardalen University
Year:	2020
Type:	**PhD thesis**
Series:	Mälardalen University Press Dissertations
ISBN:	ISBN: 978-91-7485-467-1

2

Author:	**F. Marković**
Title:	*"Improving the Schedulability of Real Time Systems under Fixed Preemption Point Scheduling"*
School:	Mälardalen University
Year:	2018
Type:	**Licentiate thesis**
Series:	Mälardalen University Press Licentiate Theses
ISBN:	ISBN: 978-91-7485-390-2

3

Author:	**F. Marković**
Title:	*"Automated Test Generation for Structured Text Language Using UPPAAL Model Checker"*
School:	Mälardalen University
Year:	2015
Type:	**MSc thesis**

Academic Service

Organising Committees

2025
- **Euromicro Conference on Real-Time Systems (ECRTS)**,
  Shadow TPC Chair
- **International Real-Time Scheduling Open Problems Seminar (RTSOPS)**, collocated with the Euromicro Conference on Real-Time Systems (ECRTS)
  Co-Chair

2024
- **ACM SIGBED International Conference on Embedded Software (EMSOFT)**
  Publicity Chair
- **International Real-Time Scheduling Open Problems Seminar (RTSOPS)**, collocated with the Euromicro Conference on Real-Time Systems (ECRTS)
  Co-Chair

2021
- **IEEE International Conference on Real-Time Networks and Systems (RTNS)**
  Session 5 Chair: Design and Verification.

Technical Program Committees

2025
- **IEEE Real-Time and Embedded Technology and Applications Symposium (RTAS)**
  Program Committee Member, **Outstanding Reviewer Award**

2024
- **IEEE Real-Time Systems Symposium (RTSS)**
  Program Committee Member
- **IEEE Real-Time and Embedded Technology and Applications Symposium (RTAS)**, Brief Presentations Track
  Program Committee Member

2023
- **International Real-Time Scheduling Open Problems Seminar (RTSOPS)**
  Program Committee Member
- **IEEE Real-Time Systems Symposium (RTSS)**, Brief Presentations Track
  Program Committee Member
- **Euromicro Conference on Real-Time Systems (ECRTS)**
  Program Committee Member
- **IEEE International Conference on Real-Time Networks and Systems (RTNS)**
  Program Committee Member

2022
- **IEEE International Symposium On Real-Time Distributed Computing (ISORC)**
  Program Committee Member
- **Workshop on Next Generation Real-Time Embedded Systems (NG-RES)**
  Program Committee Member
- **Euromicro Conference on Real-Time Systems (ECRTS)**
  Artifact Evaluation Committee
- **Euromicro Conference on Real-Time Systems (ECRTS)**
  External Reviewer
- **IEEE Real-Time and Embedded Technology and Applications Symposium (RTAS)**, Brief Presentations Track
  Program Committee Member

2021
- **IEEE Real-Time and Embedded Technology and Applications Symposium (RTAS)**
  Artifact Evaluation Committee Member

Academic Service (continued)

- **IEEE International Conference on Real-Time Networks and Systems** (**RTNS**)
  Program Committee Member

2019

- **IEEE International Conference on Industrial Technology** (**ICIT**), Special Session on Advanced Solutions for Communication in Cooperative Cyber-Physical Systems
  Program Committee Member

Reviewing

- **IEEE Transactions on Computers**
- **ACM Transactions on Embedded Computing Systems**
- **Journal of Systems Architecture**
- **Real-Time Systems Journal (Springer)**

University administration

2019 – 2022

- **Erasmus+ Project Application: Higher Education Student and Staff Mobility**.
  - ◇ Contributed to the development of an Erasmus+ grant application focused on student and staff mobility to support exchange between Sweden and non-EU countries
  - ◇ Served as the local student support for the Erasmus+ project from 2016 to 2022, enhancing the exchange experience for the visiting students

Teaching Experience

2018 – 2022

- **Mälardalen University**, *Instructor, Teaching, and Lab Assistant*
  School of Innovation, Design and Technology (IDT)
  Division of Computer Science and Engineering (CSE)
  Module: Software Architecture
  Responsibilities: Developed module materials and lectures, graded student work, and supervised lab sessions.

- **Mälardalen University**, *Teaching and Lab Assistant*
  School of Innovation, Design and Technology (IDT)
  Division of Computer Science and Engineering (CSE)
  Module: Software Development for Real-Time Systems
  Responsibilities: Created lab materials, assessed student performance, and office hours.

2021 – 2022

- **Mälardalen University**, *Co-Instructor*
  School of Innovation, Design and Technology (IDT)
  Division of Computer Science and Engineering (CSE)
  PhD-level Module: Introduction to graduate education
  Responsibilities: Prepared and delivered lectures, assessed student performance.

2020 – 2021

- **Mediterranean University**, *Module Instructor*
  Faculty for Information Technology
  Module: Software Testing
  Responsibilities: Managed module content, delivered lectures, and assessed student performance. Additional duties included developing and updating the module syllabus and creating lab exercises that complemented lecture material. Lectured in Montenegrin.

Teaching Experience (continued)

Mediterranean University, *Module Instructor*
Faculty for Information Technology
Module: Data Structures and Algorithms
Responsibilities: Managed module content, delivered lectures, and assessed student performance. Lectured in Montenegrin.

2018 – 2019 **Mälardalen University**, *Teaching and Lab Assistant*
School of Innovation, Design and Technology (IDT)
Division of Computer Science and Engineering (CSE)
Module: Component-Based Technologies
Responsibilities: Designed lab materials and graded assignments and projects. Conducted lab sessions to support student learning.

2021 – 2022 **Mälardalen University**, *Supervisor of student projects*
School of Business Society and Engineering
Division of Organization and Management
Module: Technology-based Social Entrepreneurship
Responsibilities: Supervision of student projects and assistance with technology-related issues.

Student Advising

May 2025 – present **Co-supervisor** of **Hengrui Zhao**, *PhD student*, University of Southampton

September 2020 – 2025 **Co-supervisor** of **Anna Friebe**, *PhD*, Mälardalen University
PhD thesis defended in 2025, available here.
"Probabilistic Analysis and Scheduling of Real-Time Systems"

January 2021 – July 2022 **Co-supervisor** of **Shaik Salman**, *PhD*, Mälardalen University
Licentiate Thesis defended in 2022, available here.
"Integrating Elastic Real-Time Applications on Fog Computing Platforms"

July 2022 – *present* **Co-advisor** of **Sergey Bozhko**, *PhD student* at the Max Planck Institute for Software Systems (MPI-SWS)

January 2023 – December 2024 **Co-advisor** of **Matteo Zini**, *Intern* at the Max Planck Institute for Software Systems (MPI-SWS), January – July 2023, *PhD student* at the TeCIP Institute, Scuola Superiore Sant'Anna, Pisa, Italy

January 2023 – July 2023 **Co-advisor** of **Meenal Gupta**, *Intern* at the Max Planck Institute for Software Systems (MPI-SWS), *MSc student* at the Birla Institute of Technology and Science, Pilani, Pilani Campus, India

Academic Visits and Invited Talks

1 May – 6 May 2025 — **NASA Ames Research Center**, Mountain View, USA
- ◇ Invited to NASA Ames Research Center to initiate collaboration with Dr. Irfan Šljivo and the FRET research team on LiME and its inclusion in NASA's validation pipeline
- ◇ Presented LiME and ongoing research on timing analysis of probabilistic timing requirements, which are of use to FRET

18 November – 22 November 2024 — **Boston University** (**BU**), Boston, USA
- ◇ Visited professors Richard West, Renato Mancuso and their research groups
- ◇ Presented the talk *"Dealing with Time and Uncertainty in Cyber-Physical Systems"*

18 October – 19 October 2024 — **University of Montenegro**, Podgorica, Montenegro
- ◇ Invited by the University of Montenegro to participate in the event *"Scientific Diaspora Days"*, where I presented two talks on my research

18 October – 23 October 2024 — **Mediterranean University**, Podgorica, Montenegro
- ◇ Invited by the Mediterranean University to present my research to the undergraduate students of the Faculty of Information Technology

13 February – 17 February 2024 — **TU Dortmund** (**TUD**), Dortmund, Germany
- ◇ Visited Professor Jian-Jia Chen and his research group
- ◇ Collaborated on a paper accepted to RTSS 2025

Recognitions and Funding

2025 — **LiME in NASA: Launching the Future Grants**
Awarded €1,000 pump-priming funding from ECS, University of Southampton, following a competitive selection process, to support a research visit to NASA Ames Research Center

Royal Society Endorsement — Exceptional Talent
Endorsed by The Royal Society (UK) as meeting the criteria for Exceptional Talent under the Global Talent visa scheme

2019 – 2022 — **Erasmus+ Project Application: Higher Education Student and Staff Mobility**.
Contributed to the development of an Erasmus+ grant application focused on student and staff mobility that was successfully funded, receiving €675,745 over three years to support exchanges between Sweden and non-EU countries

2015 – 2018 — **Erasmus Mundus+ PhD Scholarship**
Funded by Erasmus Mundus+ (European Commission) following a competitive selection process. My PhD proposal was selected to be funded with approximately €85000

Miscellaneous Experience

Public engagement and outreach

2025 — **Project: Back2matica** *"Science is coming back home"*.
Participated in a video interview for the national outreach initiative *Back2matica*, describing my research career trajectory and discussing opportunities for collaboration between Montenegro and the international research community

2019 — **Montenegrin Science Promotion Foundation (PRONA)**.
I was one of the lecturers at PRONA's Science Summer School in Lovćen, Montenegro, engaging with elementary and high-school students during a three-day course

Attended Summer Schools

14 June – 16 June 2016 — **Uppsala Programming for Multicore Architectures Research Center** (**UPMARC**) Summer School. Uppsala University, Uppsala, Sweden

27 June – 1 July, 2016 — **Timing Analysis on Code Level** (**TACLe**) Summer School, Yspertal, Austria

* The licentiate degree is a post-graduate, research degree, situated above the MSc degree and below the PhD degree. It is an intermediate academic qualification awarded in Sweden during PhD studies.