

PERSONAL INFORMATION

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ACADEMIC POSITIONS

2021– Associate Professor in Computer Science with specialization in Cybersecurity
 Department of Information Technology, Uppsala University, Uppsala, Sweden
 2017–2021 Assistant Professor in Signal Processing (Tenure Track)
 Department of Electrical Engineering, Uppsala University, Uppsala, Sweden
 2015–2017 Assistant Professor in Cybersecurity of Critical Infrastructures (Tenure Track)
 Faculty of Technology, Policy, and Management, TU Delft, Delft, The Netherlands
 2014–2015 Post-doctoral Researcher, KTH Royal Institute of Technology, Stockholm, Sweden

EDUCATION

2014 Ph.D. in Automatic Control, KTH Royal Institute of Technology, Stockholm, Sweden.
 2009 M.Sc. in Electrical and Computers Engineering, Universidade do Porto, Portugal.

LEADERSHIP AND SUPERVISION TRAINING

2021– Leadership Program SSF Future Research Leaders 7.
 2019 Course on “Supervising PhD students”, Uppsala University (3 weeks)
 2016 “Tenure Track 2.0” – Leadership and Personal Development Program at TU Delft.

LEADERSHIP ACTIVITIES

2019– Coordinator of the [Cybersecurity Arena](#), Dept. of Information Technology.
 2022– Coordinator of the [Graduate School in Cybersecurity](#), Dept. of Information Technology..
 2022– Member of the [Equal Opportunities Group](#), Dept. of Information Technology..
 2019–2021 Member of the Programme Board for the Master’s in Computer and Information Engineering.

SUPERVISION OF POSTDOCTORAL FELLOWS

2021–2023 Mohamed Abdalmoaty (Co-supervisor), *Privacy in Dynamical Systems*.
 2019–2022 Arunava Naha (Co-supervisor), *Statistical Change Detection*.
 2020–2021 Abbas Arghavani (Co-supervisor), *Covert Wireless Communications*.

SUPERVISION OF GRADUATE STUDENTS

2023– Usama Zafar (Co-sup.), *Secure Federated Learning at Scale*.
 2022– Zhenlu Sun (Co-sup.), *Data-driven vulnerability analysis of critical infrastructures*.
 2021– Sanja Karilanova (Co-sup.), *Data processing with spiking neural networks*.
 2021– Anh Tung Nguyen (Main sup.), *Secure Large-Scale Control Systems*.
 2019– Fatih Emre Tosun (Main sup.), *Secure Control Systems in Medical Applications*.
 2019– Sribalaji Coimbatore Anand (Main sup.), *Secure and Resilient Control Systems*.
 2015–2020 Saba Chockalingam (Daily Co-sup.), Cyber Security for Flood Management, TU Delft.
 2015–2017 Daily supervisor of 4 PhD students, TU Delft

RESEARCH FELLOWSHIPS AND AWARDS

2020 Future Research Leader 7 Grant, The Swedish Foundation for Strategic Research
 2018 Starting Grant, Swedish Research Council
 2018 Honorable Mention (co-author) for the Paul M. Frank Award at SAFEPROCESS, IFAC
 2016 Finalist (co-author) Young CRITIS Award, CIPRNET
 2015 Finalist for the 2015 EECI Annual European PhD Award on Control for Complex and Heterogeneous Systems
 2014 Best Student-Paper Award, IEEE Conference on Control Applications
 2012 Main author of paper listed on “Notable Computing Books and Articles of 2012”, ACM
 2012 Best Student Paper Award Finalist, IFAC NecSys

RESEARCH PROJECTS

- 2022–2026 Secure Federated Learning at Scale, UU Graduate school in cybersecurity. *co-PI*.
- 2022–2026 Data-driven Vulnerability Analysis for Critical Infrastructures, eSENCE-SciLifeLab graduate school in data-intensive science. *co-PI*.
- 2021–2024 Resilience, Safety, and Security in Tree-structured Civil Networks, Swedish Research Council (Vetenskapsrådet). *Principal investigator*. 5.091 MSEK.
- 2020–2025 Secure and Resilient Control Systems, The Swedish Foundation for Strategic Research (SSF), Future Research Leaders 7. *Principal Investigator*. 12 MSEK.
- 2019–2022 Analysis and Design of Secure and Resilient Control Systems, Swedish Research Council (Vetenskapsrådet), VR Starting Grant. *Principal investigator*. 3.920 MSEK.
- 2018–2023 LifeSec: Don't Hack my Body, SSF. *Team member*, leading the work packages focusing on the security of control loops using implanted medical devices.
- 2015–2019 (SOS4Floods) Secure our Flood Management Systems, The Netherlands Organisation for Scientific Research. *Team member*, co-supervisor of the PhD student.
- 2014–2017 (SPARKS) Smart Grid Protection Against Cyber Attacks, European Commission, FP7. *Team member* (as PhD student and then Post-doc), responsible for specific tasks and deliverables related to security risk analysis in interconnected energy systems and microgrids.
- 2009–2011 (VIKING) Vital Infrastructure, Networks, Information and Control Systems Management, European Commission, FP7. *Team member* (PhD student), carrying out research related to the security of power systems state estimation software.

EXPERT REVIEWER FOR FUNDING AGENCIES AND UNIVERSITIES

- 2022 External expert evaluator for tenure and promotion, University of Texas at Dallas
- 2020 Evaluation Panel member for the Collaborative and Knowledge-building Project call (KSP-K 2020 - Energi System), Research Council of Norway.
- 2019 Reviewer for NWO (The Netherlands), "Cyber Security - Digital Security & Privacy".
- 2015 Reviewer for the University of Luxembourg, "Internal Research Projects".

PhD OPPONENT SERVICE

- 2022 Member of the Ph.D. committee of Mina Ferizbegovic, KTH Royal Institute of Technology.
- 2022 Member of the Ph.D. committee of Yang You, KTH Royal Institute of Technology.
- 2020 External Examiner of Angelo Barboni, Imperial College London.
- 2018 Member of the Ph.D. committee of Vahab Rostampour, TU Delft.

SCIENTIFIC SERVICE

- 2022– Associate Editor for Automatica.
- 2020– Member of the IEEE Control System Society Tech. Committee on Security and Privacy.

ORGANISATION OF SCIENTIFIC ACTIVITIES

- 2022– Local organizing committee member for ECC 2024.
- 2022 Co-Organizer and speaker at the DISC Summer School "Security and Resiliency for Cyber-Physical Systems – foundations and recent advances", Noordwijkerhout, The Netherlands.
- 2021 Co-Organizer of the invited session "*Security and Resiliency for Cyber-Physical Systems*" at the European Control Conference (ECC), Rotterdam, The Netherlands.
- 2021 Co-editor of the edited book "Security, safety, and privacy for Cyber-physical systems", together with Dr. Riccardo Ferrari (TU Delft), published by Springer. The book is comprised of 16 chapters, 14 of which are invited contributions from prominent academics in the areas of security, privacy, and fault-tolerance in control systems.
- 2019 Co-organizer of a Tutorial Session on "Cybersecurity and Privacy in Control Systems", European Control Conference (ECC), Nice, France
- 2018, 2019 Co-Organizer of the invited session "*Safety, Security, and Privacy for Cyber-Physical Systems*" at the European Control Conference (ECC)
- 2015 Co-Organizer of the invited session "Secure and Resilient Industrial Automation and Control Systems" at the Int. Conf. on Emerging Tech. and Factory Automation, Luxembourg.