

CV – Associate Professor Robert Lagerström, KTH Royal Institute of Technology

1. Higher education degree

MSc in Computer Science, KTH Royal Institute of Technology, Stockholm, 2001 (Sep.) - 2005 (Dec.).
Master thesis: *Assessing Modifiability – A Method Applied at Vattenfall AB*.

2. Doctoral degree

PhD in Electrical Engineering, KTH Royal Institute of Technology, Stockholm, 2006 (Feb.) - 2010 (Apr.). Ph.D. thesis: *Enterprise Systems Modifiability Analysis – An Enterprise Architecture Modeling Approach for Decision Making*.

3. Docent title

Docent in *Industrial Information Systems Architecture*, KTH Royal Institute of Technology, Stockholm, 2014 (June).

4. Postdoctoral positions

ABB Corporate Research, Västerås, 2010 - 2011. *Software architecture and change management*.

5. Present position

Associate Professor, KTH Royal Institute of Technology, Stockholm, 2014 (Dec.) – present.

<http://www.kth.se/profile/robertl>

Founder and Expert, Foreseeti AB, Stockholm, 2014 (July) – present.

<http://www.foreseeti.com>

6. Previous positions and periods of appointment

Visiting scholar, Harvard Business School, 2015 – 2016

Chronicler/columnist for CIO Sweden, IDG (International Data Group), 2011 – 2016

Consultant and Partner, PHD Management Doctors AB, Stockholm, 2008 – 2015.

Assistant Professor, KTH Royal Institute of Technology, 2011 – 2014.

Research Associate, Harvard Business School, Boston, 2013.

Researcher, KTH Royal Institute of Technology, 2010 - 2011.

PhD student, Industrial Information and Control Systems, KTH, 2006 - 2010.

Quality/production engineer, machine operator and assembler, Volvo Cars and Getrag All Wheel Drive, Köping, Göteborg and Gent (Belgium), 1997 - 2005.

7. Supervision

PhD students (as main supervisor)

Wenjun Xiong, “Enhancing Cyber Resilience through Threat Modeling,” main supervisor, 2021.

Margus Välja, “Improving IT Architecture Modeling Through Automation,” main supervisor, 2018.

Viktor Engström, “Attack simulations in cloud environments,” main supervisor, ongoing.

Fredrik Heiding, “Securing critical infrastructure with penetration testing,” main supervisor, ongoing.

Nikolaos Kakouros, “Cyber security in vehicles,” main supervisor, ongoing.

8. Deductible time

A total of 15 months parental leave with my two daughters Minna (2009) and Siiri (2011) during the years 2010 - 2013.

9. Other

Citations and h-index

No. of citations: 2588

h-index: 32

Recent selected grants (as principle applicant)

Principle applicant, “Threat models for cyber insurance,” KTH Digital Futures: Research Pairs, 2020-2022, SEK 2.000.000.

Principle applicant, “Viable cities Attack Simulation & threAt modeling (VASA),” Swedish Energy Agency (Viable Cities), 2020-2022, SEK 6.000.000.

Principle applicant, “Attack simulations and threat modeling for defense systems,” Center for Cyber Defense and Information Security, 2020-2024, SEK 5.500.000.

Principle applicant (at KTH), “EnergyShield - Integrated Cybersecurity Solution for the Vulnerability Assessment, Monitoring and Protection of Critical Energy Infrastructures,” H2020, 2019-2022, 80,000,000 SEK.

Principle applicant, “Securing critical infrastructure – electric power systems – by developing threat modeling and penetration testing methods, SweGRIDS (Svk), 2019-2021, 2,325,000 SEK.

Principal applicant. “THREAT MOVE (THREAT MODELing and simulation of VEHICLE IT,” Vinnova, 2017-2022, SEK 15,154,429.

Principal applicant. “Information security in SCADA systems,” Svk (Svenska Kraftnät / the Swedish National Grid), 2015-2018, SEK 2,100,000.

Principal applicant. “Cyber Security and Flexibility Analysis of Complex Systems,” Ångpanneföreningens Forskningsstiftelse, 2014-2016, SEK 1,000,000.

Principal applicant. “a Market ready Cyber Security Modeling Language (Mr. CySeMoL),” KIC InnoEnergy, 2014-2016, SEK 12,632,185.

... and more

Conference organizing

Steering committee 2018-present, General chair 2018, and Program committee chair 2017, IEEE EDOC, enterprise computing, conference, and more.

Program committee member / Associate editor

Trends in Enterprise Architecture Research (TEAR, 2012-20), Practice of Enterprise Modeling (PoEM, 2011-12, 2016-21), Enterprise Engineering (EEWC, 2012-20), Workshop on Value and Quality of Enterprise Modelling (VEnMo, 2019-21), European Conference on Information Systems (ECIS, 2015, 2018), and more.

Editorial work and reviewing

Editorial work and reviewing for several international journals and conferences, e.g. Computers & Security, Journal of Systems and Software, European Journal of Information Systems, Journal of Software: Evolution and Process, Communications of the Association for Information Systems, Business & Information Systems Engineering, Computer Communications, International Journal of Cooperative Information Systems, Expert Systems, Information Systems Management, and more.

International collaboration

Harvard Business School, Uni. of Southern Denmark, TU Munich, National Technical Uni. of Athens,...

Teaching

Examiner, responsible, and teacher in several courses on master and PhD level, 2006 - present.

- Conducting Systematic Literature Reviews in Systems Engineering (JP3101)
- Advanced Enterprise Modeling: Holistic Systems & Software Modeling (JP3310)
- Security Analysis of Large-Scale Computer Systems (EP2790),
- Cyber security analysis (EP279U/V),
- Supervisor and examiner of more than 50 students 2021 (BTh and MTh projects), and more...

Administrative assignments

Impact director, Electrical Engineering and Computer Science, 2019 - present.

Director of studies, Network and Systems Engineering, 2018 - present (also 2011-2015).

Outreach

Science conversation with Swedish youth at film festivals (initiator, main responsible, and moderator) in Stockholm, Gothenburg, Malmö and Uppsala, 2018-2020.

Children’s book about Swedish scientists (initiator, co-author, editor) published by FriTanke in Feb. 2021, “Forskardrömmar – Berättelser för nyfikna barn”.

#290cybersecurity, leading the project at KTH, educating Swedish kids in IT-security, 2020-21.

RIFO board deputy (Riksdagsledamöter och Forskare), 2019–2021.

Forskarmöten, summer science school for high school kids, 2018-2020.

... and more.

Misc.

Member of the Young Academy of Sweden, 2016-2021.

The Swedish Research Council (VR), member of working group on an initiative to develop course content for science impact and communication in PhD education, 2020.

Expert review of grant application for the Austrian Science Fund (2021), the Luxembourg National Research Fund (2013-2019), the Natural Sciences and Engineering Research Council of Canada (2019).