

ELDA PAJA (Full CV can be found on my website: http://itu.dk/people/elpa/pdf/EldaPaja_CV.pdf)

Personal data: Born July 29, 1983. **Nationality:** Albanian.

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Current Position

Associate Professor

1 Feb 2021 – ongoing

IT University of Copenhagen, Computer Science Department

Software Engineering and Centre for Information Security and Trust (CISAT)

- *Research Interests:* Requirements Engineering, Modelling languages and tools, Automated reasoning techniques, Security and Privacy by design, Participatory design, Conceptual modelling techniques for strategic decision-making support.
- *Ongoing Research Topics:* [Demonstrable Security for Danish SMEs in a B2B Model] [Understanding challenges of integrating NFRs in Agile Software Development] [Ethical Requirements for Machine Learning Applications] [Privacy Consent Monitoring and Verification: from requirements to business processes]

Previous Positions

Assistant Professor, IT University of Copenhagen

Aug 2019 – Feb 2021

Postdoctoral Researcher, University of Trento,

May 2016 – Aug 2019

Software Engineering and Formal Methods Group, Supervisor: Prof. Paolo Giorgini paolo.giorgini@unitn.it

Postdoctoral Researcher, University of Trento,

May 2014 - May 2016

Software Engineering and Formal Methods Group, Supervisor: Prof. John Mylopoulos jm@cs.toronto.edu

Visiting PhD Student, Carnegie Mellon University, Prof. Travis D. Breaux

Sep – Nov 2013

Career breaks

Maternity leave

13 Jan 2017 – 12 Jul 2017; 12 Feb 2021 – 04 Aug 2021

Education

PhD in Information Engineering and Computer Science, University of Trento (Italy)

2014

Dissertation: “*STS: A Security Requirements Engineering Methodology for Socio-Technical Systems*”.

Advisor: Prof. Paolo Giorgini

(Nominated for best PhD thesis of the Computer Science Department in 2014)

M.S. European Master in Informatics (EuMI), RWTH Aachen (Germany), University of Trento (Italy)

2010

Thesis: “*Modeling Design patterns with Description Logics*”.

Advisors: Prof. John Mylopoulos and Prof. Gerhard Lakemeyer

B.Sc. in Computer Science, University of Tirana, Albania

2007

Thesis: “*Comparison of different types of intelligent agents: A case study and a simulation*”.

Advisor: Prof. Betim Çiço

Honours and Awards

- Young Researchers Grant for postdoctoral researcher, Caritro Foundation, Trento, June 2018
- Postdoctoral Fellowship, University of Trento, *June 2016*
- Starting Grant 2014 recipient, University of Trento, *October 2014*
- Postdoctoral Fellowship, University of Trento, *May 2014*

- PhD on The Move Programme Grant recipient, Trento Rise, *June 2013*
- PhD Fellowship, DISI, University of Trento, *November 2010*
- Erasmus Mundus Scholarship for the EuMI Master Programme, *June 2007*

Project Management Experience – co-coordination of European and National Projects

aDESSO: Sep 2023 – ongoing; funded by Digital Lead on helping Danish SMEs in a Business-2-Business Model Demonstrate Security of their services or products

ASCD: Mar 2020 – Dec 2020 funded by CFCS on the Assessment of Cybersecurity in Denmark

Involvement: design of the survey, and analysis of interviews for the final report

DICOM: Mar 2018 – June 2019 [partnered with Cosman Italia Srl, **co-PI**]

Involvement: define the modelling languages to support the reengineering of organizational processes.

PACAS: Mar 2016 – Mar 2018 [H2020 Sesar Joint Undertaking, **co-PI**]

Involvement: defined and designed (i) the modelling languages to support the work of multiple experts from different areas of expertise, in particular on security, safety, economic and organizational aspects; (ii) the PACAS platform, and supported the creation of the gamification solution, (iii) the reasoning for change impact propagation defining the mapping among the various modeling languages.

APSS: 2016 – Jun. 2018 [Partnered with the Trentinian Healthcare Agency, **co-PI**]

Involvement: defined the needs for the certification of processes to comply with the privacy data regulations, and preparing for the new GDPR, entered in force in May 2018.

Ongoing International Collaboration

On privacy requirements monitoring: Prof. Travis D. Breaux, Carnegie Mellon University

On Goal oriented RE practices: Assoc. Prof. Jennifer Horkoff, University of Gothenburg and Chalmers

On security requirements engineering: Assoc. Prof. Fabiano Dalpiaz, Utrecht University

On RE for social good (RE Cares): Prof. Jane Hayes, University of Kentucky; Prof. Alex Dekhtyar, Cal Poly, San Luis Obispo; Jennifer Horkoff, Chalmers and University of Gothenburg; Gunter Mussbacher, McGill University; Tong Li, Beijing University of Technology; Irit Hadar, University of Haifa; Meira Levy, Shenkar College of Engineering, Design, Art; Seok-Won Lee, Ajou University;

Selected Organization and Chairing

Associate Editor: **DKE Journal**

Organizer: RE'23 Workshops Co-chair; REFSQ'2021 Posters and Demos, RE-Cares2020 - ongoing.

Senior PC Member: REFSQ since 2017, RE@Next! Since 2015, iStar since 2014.

PC Member: RE, RCIS, ER, CAISE, ICSE'21 Posters & Demos.

Reviewer for top journals in RE (REJ) and Software Engineering (TSE, TOSEM, SoSYM, etc.).

Expert reviewer on national funding projects: Swiss National Science Foundation

Invited talks: More than 30 talks in universities such as Carnegie Mellon University, Chalmers, University of British Columbia, University of Malaga, University of Alicante, and companies such as ATOS, SINTEF, and in events where I served as moderator such as Cyberbattle of Estonia 2022.

Student supervision

**Note that as a young faculty I was not allowed to be main supervisor of PhD students.*

PhD Students co-supervision*, University of Trento

1. Marco Robol (*3rd year PhD student working on Privacy and GDPR Compliance*),
2. Luca Piras (*AGON: A framework for acceptance requirements and their gamification solutions*),
3. Mattia Salnitri (*Secure Business Process Engineering: A Socio-technical Approach*),
4. Tong Li (*Holistic Security Requirements Engineering for Socio-Technical Systems*).

Master thesis students @ITU: Frederik Bøye Henriksen (Understanding Security Requirements and Developing a Security Report Tool for NIS2 Compliance); William Frost Thomsen (A taxonomy of ethical

requirements for AI based systems); Niclas Bjerring and Anne Klitkou (Effect of App Dependency on Privacy Preserving Behavior); Sadaf Zahid (Process Improvement through Azure DevOps), Natascha Høgsted Jensen and Jonas Kofod Jørgensen (together with Oksana Kulyk on the topic of Cybersecurity guide for Danish SMEs), Tudor-Mihai Nastasa (Blockchain security);

Master thesis students @UNITN: Melkamu Tsegaye Emiru (2016, *Dealing with Privacy Compliance in the European Union*), Joseph Brian Kasozi (2015, *Goal Models vs Five Forces Model: A Comparative Study of Strategic Analyses*), Salimeh Dashti (2015, *Risk Analysis with STS-Tool: a Coras-based Approach*), Olga Fedoseeva (2014, *Design and Implementation of an Electronic Medical Record System*).

Research Projects @ITU: Emilie Hyldborg Bjerg and Monique Velosa Madsen (SLR of security automated tools, with Oksana Kulyk); Sverri Sølbæk Trond Himmelstrup, Christoffer Lydixen Høeg, and Christopher Tanwa Leth-Jørgensen (Effect of LLMs on Software Development); Niklas Lykke-Bøndergaard (Security Integration in Software Development: A Case of a Danish Company); Frederik Bøye Henriksen (Security Organizational Culture, an SLR); Eylem Kaya (Investigation of Hybrid Software Development Processes at a Danish Company); Jakub Andrzej Roslewski (Information security requirements in agile/SAFe framework)

Bachelor thesis students @ITU: Anton Marius Breinholt and Adrian Bay Dorph (NurishNexus: Developing a Meal Planning Application)

Bachelor thesis students @UNITN: Michele Bortolotti, Andrea Pelizzari, Andrea Ghizzoni, Linda Marilena Bertolli, Daniele Giovanella, Alessio Scussel, Luca Rospocher, Andrea Primon.

Teaching experience

Co-Lecturer, BSc in Software Development, 2nd Year Project Computer Science Department, IT University of Copenhagen	since 2022 [2 nd semester]
Co-Lecturer, open to all MSc programs, Industrial Scrum Master Computer Science Department, IT University of Copenhagen	since 2022 [2 nd semester]
Course Manager, MSc in Software Design, Software Engineering Computer Science Department, IT University of Copenhagen	since 2020 [1 st semester]
Co-Lecturer, MSc in Computer Science, Advanced Software Engineering Computer Science Department, IT University of Copenhagen	since 2020 [1 st semester]
Co-Lecturer, BSc in Digital Design, Qualitative and Quantitative Methods Digital Design Department, IT University of Copenhagen	2019 [2 semester]
Co-Lecturer, MSc in Software Design, Software Engineering Computer Science Department, IT University of Copenhagen	2019 [1 semester]
Course Manager, 100%, BSc in Computer Science, Software Engineering II Department of Engineering and Information Science, University of Trento	2018 [1 semester]
Lecturer, 100%, MSc in Computer Science, Organizational Information Systems Department of Engineering and Information Science, University of Trento	2015&2016 [2 semester]
Co-lecturer, MSc, Organizational Information Systems Department of Engineering and Information Science, University of Trento	2014 [2 semester]
Teaching Assistant, MSc in Computer Science, Organizational Information Systems Department of Engineering and Information Science, University of Trento	2013 [2 semester]