

Undervisningsportfolio

1. Undervisnings-CV: Oversigt over undervisnings- og vejledningsopgaver med angivelse af fagområder, omfang, undervisningsniveau (bachelor, kandidat, efter-/videreuddannelse, ph.d.). Type af undervisningsform angives, f.eks. forelæsning, holdundervisning, øvelse, vejledning, eksamination, censur, fjernundervisning, internetbaseret undervisning og evaluering af undervisning. Undervisningssprog angives.

1. Teaching activities

- (Spring 2023) **Sikkerhed i computersystemer** (Teacher, Course responsible, Bachelor CCT4, Compulsory, 5 ECTS, English), Aalborg University CPH.
This included lectures and exercises.
- (Spring 2023) **Hacker Space** (1 lecture, Master CYBER2, Compulsory, English), Aalborg University CPH.
- (Spring 2023) **Security and Privacy in IoT** (1 lecture, PhD course, compulsory, in the context of IoTalentum project, English), Aalborg University CPH.
- (Spring 2023) **Foundations of Distributed Systems** (External Guest Lecturer, 2 lectures, Master, optional, 5 ECTS, English), DTU Compute.

2. PhD co-supervisor

- (2022- present) **PhD co-supervisor**: Machine Learning Techniques for Attack and Defence in Hardware-Based Cybersecurity IoT applications (PhD student: Mieszko Jan Ferens Michalek)

3. Academic Supervisor for student with special needs (in English)

- (Fall 2022) Academic Support Teacher for **2 students with special needs**, DTU, Denmark
- (Spring 2022) Academic Support Teacher for **3 students with special needs**, DTU, Denmark
- (Autumn 2021) Academic Support Teacher for **2 students with special needs**, DTU, Denmark
- (Spring 2021) Academic Support Teacher for **2 students with special needs**, DTU, Denmark

4. Semester project supervisions (in English)

- (Spring 2023) Supervisor: Attacks on TrustZone (CYBER2) – 5 students
- (Spring 2023) Supervisor: Attacks on TrustZone (CYBER2) – 6 students
- (Spring 2023) Co-supervisor: Security analysis of Data Collection Cloud (CYBER2) – 6 students
- (Spring 2023) Co-supervisor: JAVA application (CCT4) – 5 students
- (Spring 2023) Co-supervisor: JAVA application (CCT4) – 6 students

5. Master Theses supervisor (in English)

- (Spring 2023) Optimizing SIEM systems for enhanced threat detection, MSc. Thesis (ongoing), Aalborg University in collaboration with Tivoli, Denmark
- (Spring 2023) Remote Attestation for intermittent devices, MSc. Thesis (ongoing, **external co-supervisor**), DTU Compute, Denmark
- (Spring 2023) A Remote Attestation-based Trust Management Model in Social IoT, MSc. Thesis (ongoing, **external co-supervisor**), DTU Compute, Denmark
- (Fall 2022) Remote Attestation in Intermittent IoT Devices, MSc. Thesis, DTU Compute, Denmark
- (Spring 2022) Remote Attestation Mechanisms for WebAssembly Enclaves in Widely-Distributed Systems, MSc. Thesis, DTU Compute, Denmark and Aalto University, Finland
- (Spring 2022) Fingerprinting schemes against Post Quantum Cryptography IPsec/IKEv2 encryption appliance, MSc. Thesis, DTU Compute, Denmark, Company SSH Communication Security, Finland, and Aalto University, Finland
- (Spring 2022) Distributed Remote Attestation Protocol through Smart Contracts Technology, MSc. Thesis, DTU Compute, Denmark
- (Spring 2022) Building a Common Framework for Efficient Remote Attestation Deployment in IoT Networks, MSc. Thesis, DTU Compute, Denmark
- (Fall 2021) Attestation of Distributed Services without Centralized Verification, MSc. Thesis, DTU Compute, Denmark

- (Spring 2021) Control-Flow Attestation of Asynchronous Distributed IoT Services, MSc. Thesis, DTU Compute, Denmark
- (Spring 2021) Blockchain in Self Attestation for Making Trust Decisions in IoT Networks, MSc. Thesis, DTU Compute, Denmark
- (Spring 2021) Scalable and Efficient Remote Attestation Protocol for Large Distributed Event-Based Systems, MSc. Thesis, DTU Compute, Denmark
- (Spring 2021) An IoT Security Framework Based on Modern IoT Security Standards, MSc. Thesis, DTU Compute (in collaboration with Company Develco Products), Denmark
- (Fall 2020) A Systematic Survey of Remote Attestation for IoT, Special course, DTU Compute, Denmark
- (Fall 2020) Penetration Test of Develco IoT Systems, Special course, DTU Compute (in collaboration with Company Develco Products), Denmark
- (Fall 2020) Memory Offloading for Remote Attestation on IoT Devices, MSc. Thesis, DTU Compute, Denmark

2. Administration og ledelse af uddannelse: Erfaring med uddannelsesledelse og –koordinering. Oversigt over studieadministrative opgaver, eksempelvis medlem af studienævn, studieleder, semesterkoordinator, fagkoordinator, akkreditering m.v. Erfaringer med planlægning af uddannelsesafvikling. Erfaring med udvikling af uddannelser. Deltagelse i udvalg, kommissioner m.m. vedr. uddannelse.

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3. Formel pædagogisk uddannelse: Oversigt over gennemførte universitetspædagogiske kursusforløb, PBL-kurser, workshops, udviklingsprojekter, kollegial supervision o.l. Udtalelse fra universitetspædagogikum. Deltagelse i konferencer om pædagogik og didaktik. Dokumentation i form af kursusbeviser, udtalelser m.m. vedlægges.

- (January 2023--ongoing) The University Pedagogical Programme, Aalborg University, CPH, Denmark
- (March 2023) Basic Course in PBL for University Teachers, Aalborg University, CPH, Denmark
- (Autumn 2023) Teaching Assistant Training Programme, DTU, Lyngby, Denmark

4. Andre kvalifikationer: Bidrag til konferencer, debatindlæg, videnskabelige artikler om pædagogiske emner m.v. Kollegasupervision, redaktørarbejde, erfaring som mentor og anden kompetenceudvikling.

- (March 2023 - present) Mentee at the AAU Mentoring Programme
Participating as a mentee in the AAU Mentoring Programme to discuss common experiences and engage on a cross-faculty networking.
- (May 2022 - present) Cybersecurity mentor at Women4Cyber
Volunteering as a mentor to help girls to improve her skills and advance her cybersecurity career in academia.

5. Pædagogisk udvikling og forskning: Udvikling af nye kurser, undervisningsmateriale, undervisnings- og eksamensformer eller andet udviklingsarbejde. Didaktisk og pædagogisk forskning. Samarbejde med eksterne samarbejdspartnere.

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6. Udtalelser om undervisningskompetencer fra foresatte og kolleger. Undervisningsevalueringer og eventuelle udmærkelser for undervisningsvaretagelse.

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7. Evt. personlige refleksioner og initiativer: Personlige overvejelser knyttet til undervisning og vejledning, ønsker til og planer for pædagogisk videreudvikling, planer for opfølgning på undervisningsevalueringer m.v. Refleksioner over eget pædagogiske arbejde, dets målsætninger, metoder og gennemførelse. I refleksionen analyseres og motiveres dine pædagogiske aktiviteter i forhold til din pædagogiske forståelse og de studerendes læring. Tanker om undervisningsformen på Aalborg Universitet, der har et stort indhold af gruppeorganiseret projektarbejde og problembaseret læring (PBL).

I believe it is important that teachers and students establish a shared vision regarding the pedagogical objectives, resources, and expectations. As an assistant professor, I intend to incorporate the Problem-based Learning (PBL) approach in both bachelor and master courses as a valuable way to enhance students' practical skills and foster their creativity. By implementing this approach, students can learn by working on real-world problems and gain hands-on experience, which will be useful for their future academic endeavors.

8. Andet.

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