ELENA PAGNIN	Education & Titles	
	since 2022 Assistant Professor Tenure-Track (Fo	rskarassistent) Chalmers (SE)
Assistant Professor at Chalmers University of Technology	020 - 2022 Associate Senior Lecturer (Biträdande Apr-Aug Universitetslektor)	
Personal Info	2019 - 2020 Post-Doctoral Researcher in Cryptogra Feb - Mar	
Nationality: Italian, Swedish E-mail: elenap@chalmers.se Webpage: epagnin.github.io Profiles: Google Scholar, LinkedIn	2014 - 2019 <b>Ph.D.</b> in Computer Science (Cryptogra May - Jan Thesis Title: "Be more and be merry: en and user authentication in collaborative Supervisor: A. Sabelfeld	nhancing data
Scopus ORCID: 0000-0002-7804-6696	2016 Licentiate Degree of Engineering Aug 25th Thesis Title: "Authentication under Cor Supervisor: A. Mitrokotsa	Chalmers (SE) nstraints" 📃
Impact (Google Scholar) No. publications: <b>20+</b>	2012 - 2013 <b>Project Officer</b> (paid Researcher Assis Aug - Feb Master thesis project under Prof. <i>F. Oc</i>	. ,
No. citations: <b>380+</b> h-index: <b>10</b>	2011-2013 Master's in Applied Mathematics Thesis Title: "Homomorphic Authentica Linear Network Coding" Score: 110 / 11	University of Trento ation Codes for (IT)
	2008-2011 Bachelor's in Pure Mathematics Thesis Title: "Surfaces, Maps and Proje Teaching Experience" Score: 102/110	University of Padova ections. A (IT)
Recent Achievem	nts (Grants & Awards)	
2023 <b>Co-PI</b> in a seed funding awa Security Vision for Transport	ded by Chalmers' Areas of Advance on the topic <i>To</i> tion Systems in the 6G Era	wards a Multi-Layer (0.5M SEK)
2023-2027 <b>PI</b> of the prestigious Starting Grant awarded by the Swedish Research Council (VR starting) on (4M SEK) Progressive Verification of Cryptographic Schemes		VR starting) on (4M SEK)
-	d to strategic research areas by the Excellence Cen	iter ELLIIT (1.6M SEK)
abstract appeared in ASIACE	-version of "Multi-Key Homomorphic Authenticators PT16) granted by the IET Information Security Jour ecognize the best research papers published during	nal. [This kind of
———— Supervision of Ph	) Students ( 💄 = I am the main advisor, 💵 = I co-	supervise together with)
2023 - now Adrian Perez Keilty: Progress Planned PhD Defense: 20 Au	ive Verification of Cryptographic Schemes ( 💄 ) 1 2028	Chalmers (SE)
2023 - now Hanna Ek: Advanced Properties for Digital Signatures ( 🎴 ) Planned PhD Defense: 31 Dec 2027		Chalmers (SE)
2019 - now <b>Ivan Oleynikov</b> : <i>Privacy-Preserving Location Proximity Testing</i> ( <b>L</b> ) Licentiate: 30 Sept 2022. Planned PhD Defense: 31 Aug 2024		Chalmers (SE)
2020 - now <b>Joakim Brorsson</b> : <i>Privacy El</i> Planned PhD Defense: April	024	Lund University (SE)
Planned PhD Defense: Septe	ne Learning for the Medical Sector ( 🚢 A. Aminifar nber 2027	) Lund University (SE)
— Graduated Students		
2023.03.21 Martin Gunnarsson: Securin 2023.02.28 Hadi Sehat: Dual Deduplicat	IoT Systems ( <b>\$</b> Prof. C. Gehrmann) n in multi-client setting and its applications ( <b>\$</b> P	Lund University (SE) rof. D. Lucani) Aarhus University (DK)
Selection of Profe	ssional Activities	
2021-now Program Committee Member 2022-now Mentor in the WISE-WWACQ	for: LatinCrypt23, ACNS23, SEC@SAC22, ACISP21 mentorship program	
•	of Advance full-day seminar on Navigating the Cybe	ersecurity Chalmers (SE)
Landscape on Fortifying the Digital Fortress: Provably Secure Cryptography 2023 Invited Speaker at AI NORDIC POWWOW on "Cybersecurity and AI for Company Security" Lund (SE)		
2023Seminar speaker at the BAR2022Invited Speaker at the seminant2022Invited Speaker at the CRC sector	center on Progressive Verification for Cryptographi ar series at Protocol Labs: Extended Threshold Ring eminar series at TII Research Centers: Progressive a	c Schemes KU Copenhagen (DK) g Signatures 🗟 (remote)
Verification 🗟		

Elena Pagnin's CV

2022 <b>Invited Speaker</b> at a National hearing of researchers on "Innovative Processes for Data Inter- and Data Sharing" organized by the Swedish Ministery for Integrity Protection (Integritetsskyddsmyndigheten - IMY)	grity Stockholm (SE)
2022 Invited Panelist on "Allyship and Inclusion" at СRYРТО22 🗟	Santa Barbara (CA, USA)
2021 Invited Speaker at ELLIIT initiative on Future-Oriented Research: "Enhancing Data Authenticat	ion" 🖻 Lund (SE)
2021 Participant in the Researchers' Grand Prix: Security and Privacy in the Digital Era 🖹	Helsinborg (SE)
2020 Invited Speaker at Framtidsveckan: AI, digitalisering och integritet – vad får vi för vår hälsodat Presentation and Panel Discussion on "Contact tracing apps and their security dilemmas" 📄	a? Lund (SE)
2019 Examiner for the PhD Defence of Ijlal Loutfi on "Trusted Execution on Commodity Devices"	University of Oslo (NO)

## Teaching Experience 2015-now Master's Theses: Supervisor of 9, Examiner for 1. Chalmers, Università di Milano, Lund University 2022-now Course Responsible for the Masters level course Cryptography (TDA352/DIT250, 7.5hp) Chalmers (SE)

2022 Lecturer and Co-instructor for the Masters level course Advanced Cryptography (EITN85, 7.5hp) 1 2020 - 2022 Lecturer and Course Responsible for the Masters course Advanced Web Security (EITN41, 7.5hp) 1 2021 Course Responsible for the PhD level course Frontiers in Security Research (EIT190F, 7.5hp) 1

Lund University (SE) Lund University (SE) Lund University (SE)

## **Selected List of Publications**

Brorsson, David, Gentile, <b>Elena Pagnin</b> , and Stankovski-Wagner: "PAPR: Publicly Auditable Privacy Revocation for Anony- mous Credentials". In: The Cryptographers' Track at RSA Conference (2023).		
Boschini, Fiore, and <b>Elena Pagnin</b> : "Progressive and Efficient Verification for Digital Signatures". In: International Conference on Applied Cryptography and Network Security - ACNS (2022).		
Vestergaard, <b>Elena Pagnin</b> , Kundu, and Lucani: "Secure Cloud Storage with Joint Deduplication and Erasure Protection". In: International Conference on Cloud Computing - IEEE CLOUD (2022).		
Aranha, Hall-Andersen, Nitulescu, <b>Elena Pagnin</b> , and Yakoubov: "Count Me In! Extendability for Threshold Ring Signa- tures". In: International Conference on Practice and Theory of Public-Key Cryptography - PKC (2022).		
Sehat, <b>Elena Pagnin</b> , and Lucani: "Yggdrasil: Privacy-Aware Dual Deduplication in Multi Client Settings". In: IEEE International Conference on Communications - ICC: SAC Cloud Computing, Networking and Storage Track (2021).		
Lucani, Nielsen, Orlandi, Elena Pagnin, and Vestergaard: <i>"Secure Generalized Deduplication via Multi-Key Revealing Encryption"</i> . In: Security and Cryptography for Networks (2020).		
Oleynikov, <b>Elena Pagnin</b> , and Sabelfeld: <i>"Where Are You Bob? Privacy-Preserving Proximity Testing with a Napping Party"</i> . In: European Symposium on Research in Computer Security – ESORICS (2020).		
<b>Elena Pagnin</b> , Gunnarsson, Talebi, Orlandi, and Sabelfeld: <i>"TOPPool: Time-aware Optimized Privacy-Preserving Ridesharing"</i> . In: <i>Proceedings on Privacy Enhancing Technologies</i> (2019).		
Blazy, Bossuat, Bultel, Fouque, Onete, and <b>Elena Pagnin</b> : "SAID: Reshaping Signal into an Identity-Based Asynchronous Messaging Protocol with Authenticated Ratcheting". In: 2019 IEEE European Symposium on Security and Privacy - EuroS&P (2019).		
Fiore and <b>Elena Pagnin</b> : "Matrioska: A Compiler for Multi-key Homomorphic Signatures". In: International Conference on Security and Cryptography for Networks - SCN (2018).		
Fiore, Mitrokotsa, Nizzardo, and <b>Elena Pagnin</b> : "Multi-key Homomorphic Authenticators". In: Annual International Confer- ence on the Theory and Application of Cryptology and Information Security - ASIACRYPT (2016).		