ELENA PAGNIN			- Education & Titles	
Assistant Professor at Chalmers			Assistant Professor Tenure-Track (Forskarassistent)	Chalmers (SE)
University of Technology			Associate Senior Lecturer (Biträdande Universitetslektor)	Lund University (SE)
Personal Info		2019 - 2020	Post-Doctoral Researcher in Cryptography	Aarhus University (DK)
Nationality: Italian, Swedish E-mail: elenap@chalmers.se Webpage: epagnin.github.io Profiles: Google Scholar, LinkedIn			<b>Ph.D.</b> in Computer Science (Cryptography) Thesis Title: "Be more and be merry: enhancing data and user authentication in collaborative settings" Supervisor: A. Sabelfeld	Chalmers (SE)
Scopus ORCID: 0000-0002-7804-6696			Licentiate Degree of Engineering Thesis Title: "Authentication under Constraints"  Supervisor: A. Mitrokotsa	Chalmers (SE)
Impact (Google Scholar)			Project Officer (paid Researcher Assistant position)	Nanyang TU (SG)
No. publications: 20+ No. citations: 370+ h-index: 10			Master thesis project under Prof. F. Oggier supervision  Master's in Applied Mathematics  Thesis Title: "Homomorphic Authentication Codes for Linear Network Coding" Score: 110 / 110, cum laude	University of Trento (IT)
		2008-2011	· · · · · · · · · · · · · · · · · · ·	University of Padova (IT)
2023 <b>Co-PI</b> in a seed funding awarded by Chalmers' Areas of Advance on the topic <i>Towards a Multi-Layer</i> (0.5M SEK) Security Vision for Transportation Systems in the 6G Era				
2023-2027	<b>PI</b> of the prestigious Startin Progressive Verification of C	~	ded by the Swedish Research Council (VR starting) on Schemes	(4M SEK)
	P I in a personal grant awarded to strategic research areas by the Excellence Center ELLIIT (1.6M SEK)			(1.6M SEK)
2020 <b>Best Paper Award</b> for the full-version of "Multi-Key Homomorphic Authenticators" (extended abstract appeared in ASIACRYPT16) granted by the IET Information Security Journal. [This kind of Premium Award is given to recognize the best research papers published during the last two years]				
Supervision of PhD Students ( = I am the main advisor, = I co-supervise together with)				
2023 - now	Adrian Perez Keilty: Progressive Verification of Cryptographic Schemes ( ) Chalmers (S Planned PhD Defense: 20 Aug 2028			
2023 - now	Hanna Ek: Advanced Properties for Digital Signatures () Planned PhD Defense: 31 Dec 2027			Chalmers (SE)
2019 - now				Chalmers (SE)
2020 - now	Joakim Brorsson: Privacy Enhancing Technologies ( La T. Johansson) Planned PhD Defense: December 2025			Lund University (SE)
2022 - now				Lund University (SE)
— Graduated Students				
	Martin Gunnarsson: Securin Hadi Sehat: Dual Dedunlicat	• ,	s (  Prof. C. Gehrmann)  Silvent setting and its applications (  Prof. D. Lucani)	Lund University (SE) Aarhus University (DK)
——— Selection of Professional Activities ————————————————————————————————————				
2021-now			ypt23, ACNS23, SEC@SAC22, ACISP21.	
2022-now	Mentor in the WISE-WWACQ	T mentorship	program	
2023 2022	Invited Speaker at Al NORDIC POWWOW on "Cybersecurity and Al for Company Security"  Seminar speaker at the BARC center on Progressive Verification for Cryptographic Schemes Invited Speaker at the seminar series at Protocol Labs: Extended Threshold Ring Signatures (remote) Invited Speaker at the CRC seminar series at TII Research Centers: Progressive and Efficient Verification ▶			
2022		d by the Swe	researchers on "Innovative Processes for Data Intergrity dish Ministery for Integrity Protection	Stockholm (SE)
Elena Pagr	un's CV		(compiled on October 27, 2023)	Page 1 of 2

2022 Invited Panelist on "Allyship and Inclusion" at CRYPTO22 Santa Barbara (CA, USA) 2021 Invited Speaker at ELLIIT initiative on Future-Oriented Research: "Enhancing Data Authentication" Lund (SE) 2021 **Participant** in the Researchers' Grand Prix: Security and Privacy in the Digital Era Helsinborg (SE) 2020 Invited Speaker at Framtidsveckan: Al, digitalisering och integritet – vad får vi för vår hälsodata? Lund (SE) Presentation and Panel Discussion on "Contact tracing apps and their security dilemmas" 🖹

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)

Lund University (SE)

2020 - 2022 Lecturer and Course Responsible for the Masters course Advanced Web Security (EITN41, 7.5hp)

Lund University (SE)

2021 Course Responsible for the PhD level course Frontiers in Security Research (EIT190F, 7.5hp)

Lund University (SE)

## **Selected List of Publications**

Brorsson, David, Gentile, Elena Pagnin, and Stankovski-Wagner: "PAPR: Publicly Auditable Privacy Revocation for Anony-CT-RSA23 mous Credentials". In: The Cryptographers' Track at RSA Conference (2023). 

Boschini, Fiore, and Elena Pagnin: "Progressive and Efficient Verification for Digital Signatures". In: International Conference on Applied Cryptography and Network Security - ACNS (2022).

Vestergaard, Elena Pagnin, Kundu, and Lucani: "Secure Cloud Storage with Joint Deduplication and Erasure Protec-CLOUD22 tion". In: International Conference on Cloud Computing - IEEE CLOUD (2022).

Aranha, Hall-Andersen, Nitulescu, Elena Pagnin, and Yakoubov: "Count Me In! Extendability for Threshold Ring Signa-PKC22 tures". In: International Conference on Practice and Theory of Public-Key Cryptography - PKC (2022). 🖹 , 🖹

Sehat, Elena Pagnin, and Lucani: "Yggdrasil: Privacy-Aware Dual Deduplication in Multi Client Settings". In: IEEE IEEE-ICC21 International Conference on Communications - ICC: SAC Cloud Computing, Networking and Storage Track (2021). 

Lucani, Nielsen, Orlandi, Elena Pagnin, and Vestergaard: "Secure Generalized Deduplication via Multi-Key Revealing Encryption". In: Security and Cryptography for Networks (2020).

ESORICS20 Oleynikov, Elena Pagnin, and Sabelfeld: "Where Are You Bob? Privacy-Preserving Proximity Testing with a Napping Party". In: European Symposium on Research in Computer Security – ESORICS (2020). **■**, **=** 

PETs19 **Elena Pagnin**, Gunnarsson, Talebi, Orlandi, and Sabelfeld: "TOPPool: Time-aware Optimized Privacy-Preserving Ridesharing". In: Proceedings on Privacy Enhancing Technologies (2019). 

Blazy, Bossuat, Bultel, Fouque, Onete, and Elena Pagnin: "SAID: Reshaping Signal into an Identity-Based Asynchronous EuroS&P19 Messaging Protocol with Authenticated Ratcheting". In: 2019 IEEE European Symposium on Security and Privacy - EuroS&P (2019).

SCN18 Fiore and Elena Pagnin: "Matrioska: A Compiler for Multi-key Homomorphic Signatures". In: International Conference on Security and Cryptography for Networks - SCN (2018). **■**, **=** 

Fiore, Mitrokotsa, Nizzardo, and Elena Pagnin: "Multi-key Homomorphic Authenticators". In: Annual International Confer-AC16 ence on the Theory and Application of Cryptology and Information Security - ASIACRYPT (2016). **■**, **=** 

ACNS22

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SCN20

**■**, **=**