ELENA PAGNIN	Education & Titles	
LLENA FAGININ	since 2022 Assistant Professor Tenure-Track (Forskarassistent)	Chalmers (SE)
Assistant Professor at Chalmers	2020 - 2022 Associate Senior Lecturer (Biträdande	Lund University (SE)
University of Technology	Apr-Aug Universitetslektor)	
Personal Info	2019 - 2020 Post-Doctoral Researcher in Cryptography	Aarhus University (DK)
Nationality: Italian, Swedish	Feb - Mar 2014 - 2019 Ph.D. in Computer Science (Cryptography)	Chalmers (SE)
E-mail: elenap@chalmers.se	May - Jan Thesis Title: "Be more and be merry: enhancing data	
Webpage: epagnin.github.io	and user authentication in collaborative settings" 📃	
Profiles: Google Scholar, LinkedIn	Supervisor: A. Sabelfeld	
Scopus	2016 Licentiate Degree of Engineering Aug 25th Thesis Title: "Authentication under Constraints"	Chalmers (SE)
ORCID: 0000-0002-7804-6696	Supervisor: A. Mitrokotsa	
Impact (Google Scholar)	2012 - 2013 Project Officer (paid Researcher Assistant position)	Nanyang TU (SG)
No. publications: 20+	Aug - Feb Master thesis project under Prof. F. Oggier supervision	, , ,
No. citations: 370+	2011-2013 Master's in Applied Mathematics	University of Trento
h-index: 10	Thesis Title: "Homomorphic Authentication Codes for	(IT)
	Linear Network Coding" Score: 110 / 110, cum laude 2008-2011 Bachelor's in Pure Mathematics	University of Padova
	Thesis Title: "Surfaces, Maps and Projections. A	(IT)
	Teaching Experience" Score: 102/110	
Recent Achievements (Grants & Awards)		
	arded by Chalmers' Areas of Advance on the topic <i>Towards a Multi-Laye</i>	er (0.5M SEK)
Security Vision for Transpor	tation Systems in the 6G Era	
	ng Grant awarded by the Swedish Research Council (VR starting) on	(4M SEK)
Progressive Verification of	,, e ,	(4 CM OFW)
2020-2022 PI in a personal grant awarded to strategic research areas by the Excellence Center ELLIIT (1.6M SEK) 2020 Best Paper Award 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)		
	ssive Verification of Cryptographic Schemes (🏝)	Chalmers (SE)
Planned PhD Defense: 20 Aug 2028		
, , , , , , , , , , , , , , , , , , , ,		Chalmers (SE)
Licentiate: 30 Sept 2022. Planned PhD Defense: 31 Aug 2024 2020 - now Joakim Brorsson : Privacy Enhancing Technologies (La T. Johansson)		L
Planned PhD Defense: December 2025		Lund University (SE)
2022 - now Arthur Nijdam : Secure Machine Learning for the Medical Sector (L A. Aminifar)		Lund University (SE)
Planned PhD Defense: September 2027		
— Graduated Students		
·		Lund University (SE)
2023.02.28 Hadi Sehat: Dual Deduplication in multi-client setting and its applications (🖴 Prof. D. Lucani) Aarhus University (DK)		
	essional Activities ————————————————————————————————————	
_	er for: LatinCrypt23, ACNS23, SEC@SAC22, ACISP21.	
2022-now Mentor in the WISE-WWAC	QT mentorship program	
2023 Invited Speaker at ALMODI	OIC POWWOW on "Cybersecurity and AI for Company Security"	Lund (SE)
	2023 Seminar speaker at the BARC center on <i>Progressive Verification for Cryptographic Schemes</i>	
•	22 Invited Speaker at the seminar series at <i>Protocol Labs</i> : Extended Threshold Ring Signatures	
		(remote)
Verification 🖹		
2022 Invited Speaker at a National hearing of researchers on "Innovative Processes for Data Intergrity Stockholm (SE)		
and Data Sharing" organiz (Integritetsskyddsmyndigh	ed by the Swedish Ministery for Integrity Protection	
, , , ,	_	Santa Barbara (CA, USA)
2022 Invited Panelist on "Allyship and Inclusion" at CRYPTO22 🗟 Santa Barbara (CA, USA)		

Page 1 of 2

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)

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).

ACNS22 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).

PKC22 Aranha, Hall-Andersen, Nitulescu, Elena Pagnin, and Yakoubov: "Count Me In! Extendability for Threshold Ring Signatures". 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).

SCN20 Lucani, Nielsen, Orlandi, Elena Pagnin, and Vestergaard: "Secure Generalized Deduplication via Multi-Key Revealing **■**, **= Encryption**". In: Security and Cryptography for Networks (2020).

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

Elena Pagnin, Gunnarsson, Talebi, Orlandi, and Sabelfeld: "TOPPool: Time-aware Optimized Privacy-Preserving PETs19 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).

Fiore and Elena Pagnin: "Matrioska: A Compiler for Multi-key Homomorphic Signatures". In: International Conference SCN18 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). **■**, **=**

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Lund University (SE)