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"My work is a game, a very serious game" M.C. Escher



Amsterdam, The Netherlands

San Diego, C.A., United-States

2015-Present

2013-2014

Research Interest

Research area: *Cryptology* (theory, practice, standards, cryptanalysis), with a particular focus on *lattice-based* cryptographic systems.

- Number theory and geometry of numbers, For applications in Cryptography
- Quantum and concrete cryptanalysis, New algorithms, Tweaks for practice, Security estimates
- **Optimizing cryptographic designs**, New algorithms, Transfer from theory to practice, Standardization
- **Open-Source Implementation**, Code and Data Sharing, Strengthening Knowledge, Accelerating discoveries

Employment_____

Centrum Wiskunde & Informatica (CWI)

RESEARCH-STAFF (TENURED) IN THE CRYPTOLOGY GROUP

University of California, San-Diego (UCSD)

Postdoc in the Computer Science and Engineering department Hosted by Prof. Daniele Micciancio

Education_____

École No	ormale Supérieure (ENS)	Paris, France
Рн.D. "Lat Advisor	rice Based Signatures: Attacks, Analysis and Optimization" s: Prof. Phong Q. Nguyen And Prof. David Pointcheval	2009-2013
Master M Main to Master	PRI (Parisian Master of Research in Сомритег Science). With ноnours. opics: Formal Languages and Automated Proofs, Complexity, Game Theory, Cryptography Thesis: "Conception of a Language for Cryptographic Reduction". Supervised by Mathieu Baudet.	2007-200.
DOUBLE B	achelor Degree: Mathematics and Computer Science. With honours.	2006-200
Hono	ors and Awards	
2020-202	5 ERC Starting-Grant, Project: A Reduction Theory For Codes and Lattices in Cryptography (ARTICULATE)	1 500 000 €
2020	Research Fellow of the Simons Institute, Research Semester on Lattices	Berkeley, CA, USA
2018-	Co-leader of the Darmstadt SVP challenge Hall of Fame 🗷, Record computation for lattice problems	
2018	Top 3 paper ² at Asiacrypt, for Learning strikes again: the case of the DRS signature scheme	
2017	Top 3 paper ² at Eurocrypt, for Short Stickelberger Class relations and application to Ideal-SVP	
2017-2020	Veni Personal Research Grant from NWO, Project: Cryptanalysis of Lattice-based Cryptography	250 000 €
2016	Facebook Internet Defense Prize 🖙 at USENIX. for Post-Ouantum Key Exchanae – A New Hope	100 000 \$ / 4

2015 NTRU challenge from Security Innonvation C, Cryptanalysis of NTRU challenges

Program Committees and Editorial Boards_____

EDITORIAL BOARDS

²A.k.a. "honorable mention", paired with an invitation to submit to the Journal of Cryptology.

October 30, 2020

5x1000\$/2

PROGRAM COMMITTEE MEMBER

Conferences PKC'16, AfricaCrypt'16, PKC'17, STACS'17, EuroCrypt'17, PKC'18, SCN'18, CRYPTO'18, Asiacrypt'18, PKC'19, LatinCrypt'19, EuroCrypt'20, EuroCrypt'21 Trimester on Post-Quantum Algebraic Cryptography (Fall 2021)

Cons	ortium Grants and Industrial Funding Acquisition $_$		
Europea	n H2020 Project (12 Institutions)		5 000 000 €/ 12
PROMETH	EUS: Advanced Lattice-Based Cryptography from Theory to Practice		2018-2022
PI for CWI	, and Work-Package Leader		100,000,6
POST-OUAN			2016-2017
Co-PI with	n Ronald Cramer		2010 2011
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Teacl	ning		
Post-D	OC HOSTING		
2019	Benjamin Wesolowski, Graduate from EPFL	Co-host	ed with Ronald Cramer
2018-2019	Yang Yu, Gratuate from Tsinghua University		
PHD. S	JPERVISION		
2018 -	Wessel P.J. van Woerden, on Lattice Algorithms and Cryptanalysis		
2016 -	Koen de Boer, on Algebraic Number Theory and Quantum Algorithms		
Bachel	or and Master Thesis Supervision		
2018	Wessel P.J. van Woerden, Master Thesis at Leiden U.		
2016	Wessel P.J. van Woerden, Bachelor Thesis at Leiden U.		
2017	Alex van Poppelen, Master Thesis at from Utrecht U.		
VISITIN	g Students		
2020	Oleksandra (Sasha) Lapiha, Master Internship, visiting from ENS Paris		
2019	Alice Pellet-Mary, Ph.D. Internship, Visiting from ENS Lyon	⁻ unded by the (CWI internship program
2018	Maxime Plançon, Master Internship, visiting from ENS Paris		
2017	Guillaume Bonnoron, Ph.D. Internship (3 Months), visiting from U. of Rennes	⁻ unded by the (CWI internship program
2016	Willy Quash, Master Internship (6 Months), visiting from ENS Lyon		
-	Yang Yu, Ph.D. Internship, Yang Yu visiting from from Tsinghua U., China)	Fundea	l by the ERCIM program
Coursi	ES		
Lattice A	lgorithms and Applications to Cryptology	MasterMa	ath, The Netherlands
16 LECTURE	s of 2H45, Co-lectured with Daniel Dadush. With lecture notes 🗗		Spring 2018
Tutori	ALS		
Mar. 2019	Mini-Course: Algorithms for lattice problems, Winter school on mathematical foundations of asyn	nmetric	French Mathematical
	cryptography (3 hours)		Society
June 2018	B Lecture: Introduction to Fully Homomorphic Encryption, Cyber in Occitanie (2 hours, plus Exerc	ises ℤ")	Montpelier, France, LIRMM and CNFM
Mar. 2017	Mini-Course: Lattice-based Crypto: Construction and Cryptanalysis, Spring School on Lattice-	Based	U. of Oxford, UK
	Cryptography (6 hours, with Exercises ☑))		
Jun. 2016	Mini-Course: Introduction to Lattice Based Cryptography, African Mathematical School on Cryp	tography	U. of Bamenda,
0.1.00	(8 hours: Lecture notes ☞)	6 - VI	Cameroon
Oct. 2015	Two lectures: LLL and BKZ, Recovering short generators, Mathematical and Practical Aspects	of Fully	Institut Henry
lup 2015	Homomorphic Encryption and Multi-Linear Maps		Pointcare, France
Jun. 2015	Lecture. Jib-based constructions, summer school on real-world crypto and privacy		SIDELIIK, CIUUEIA

Institut Henry Pointcaré, Paris

Invitations (Selection)

2020	In Residence Fellow, Research Semester on Lattices at the Simons Institute	Berkeley, CA, USA
May 2018	Invited Speaker, Workshop on Lattice Crypto and Algorithms, LATCA@BiCi (Z. Brakerski, V. Vaikuntanathan, I	H. Wee) Bertinoro, Italy
May 2018	Keynote speaker, Africacrypt 2018	Marrakesh, Morocco
Apr. 2018	Invited speaker, Computational Challenges in the Theory of Lattices	ICERM, Brown, USA
Feb. 2018	Research visit, (Steven Galbraith)	Aukland U., New-Zealand
Twice	Invited speaker, HEAT Workshops (N. Smart, F. Verkauteren)	Institute Henry Pointcaré, France
Nov. 2015	Invited Speaker, Elliptic Curve Cryptography	U. of Bordeaux, France
Nov. 2015	Invited Speaker, Conference on Mathematics of Cryptography, Sloan Foundation (H. Lenstra and A. Silverber	rg) UC Irvine, USA
Apr. 2015	Invited Speaker, Mathematics of Lattices and Cybersecurity, ICERM (J. Hoffstein)	ICERM, Brown, USA

Presentations _____

Conferences

May. 2018	The General Sieve Kernel, Africacrypt	Marrakesh, Morocco
May. 2018	Large FHE gates from Tensored Homomorphic Accumulator, Africacrypt	Marrakesh, Morocco
Jul. 2016	Fast Fourier Orthogonalization, ISSAC 2016 Wilf	rid Laurier U., Waterloo, Canada
May 2016	Recovering Short Generators of Principal Ideals in Cyclotomic Rings, Eurocrypt 2016	Vienna, Austria
Nov. 2015	Recovering Short Generators of Principal Ideals in Cyclotomic Rings, Elliptic Curve Cryptography	U. of Bordeaux, France
Apr. 2015	FHEW: Bootstrapping in Less than a Second, Eurocrypt 2015	Sofia, Bulgaria
Worksh	IOPS	
May 2020	LWE with Side Information: Attacks and Concrete Security Estimation, Lattices: From Theory to Pra	actice Berkeley, CA, USA (online)
Feb. 2020	Self-Reducibility of Ideal-SVP via Arakelov Random Walks, Lattices: Geometry, Algorithms and Hardn	ess Berkeley, CA, USA
Jan. 2020	Algorithms for Algebraic Lattices: Classical and Quantum, Lattices: Algorithms, Complexity, and Cryptography Boot Camp	Berkeley, CA, USA
May 2019	Poly-Time BDD near Minkowski's Bound in Discrete Logarithm Lattices, 5th London Symposium on Information Theory	UK, King's College, London
May. 2018	The General Sieve Kernel, Lattice Crypto and Algorithms	LATCA@BiCi, Bertinoro, Italy
Apr. 2018	Logarithmic Lattices, Computational Challenges in the Theory of Lattices	ICERM, Brown, USA
Sept. 2017	Pruning in FPLLL, and Prototyping Lattice Algorithm with FPYLLL, FPLLL days	CWI, Amsterdam
Apr. 2017	Short Stickelberger Class Relations and application to Ideal-SVP, Frontiers of Quantum Safe Cryptog	graphy U. Paris VI, France
Jan. 2017	Exploiting Quantum Algorithms against Ideal-SVP, Perspectives on Complexity Theory and Cryptograp	hy IISc, Bengalore, India
Nov. 2016	Post-Quantum Cryptography from Lattices, QuSoft Symposium	VI, Amsterdam, The Netherlands
Nov. 2016	NewHope, Frodo, in Between and Beyond, European Cyber Week	U. of Rennes, France
Nov. 2016	Introduction to homomorphic encryption, Colloquium Coding Theory and Cryptography Royal Fler	nish Academy, Brussel, Belgium
Nov. 2016	NewHope, Frodo, in Between and Beyond, Quantum-Safe Crypto Workshop	National University of Singapore
Oct. 2016	Short stickelberger class relations and application to ideal-SVP, Mathematics of Information-Theorem	tic Institute for Mathematical
	Cryptography	Sciences, Singapore
Jul. 2016	A subfield lattice attack on overstretched NTRU assumptions, Homomorphic Encryption Application	s and Institute Henry
	Technology	Pointcaré, France
May 2016	What you should know on Lattice-based Cryptography to implement it, Cryptographic protocols for	r small Vienna University of
	devices	Technology, Austria
Oct. 2015	Recovering Short Generators of Principal Ideals in Cyclotomic Rings, Tools for Asymmetric Cryptana	alysis Bochum, Germany
Nov. 2015	Recovering Short Generators of Principal Ideals in Cyclotomic Rings, Conference on Mathematics of	f Sloan Foundation,
	Cryptography	UC Irvine, USA
Apr. 2015	Recovering Short Generators of Principal Ideals in Cyclotomic Rings, Mathematics of Lattices and	ICERM, Providence,
	Cybersecurity	USA

Seminars

Aug. 2020	An Algorithmic Reduction Theory for Binary Codes, Tutte Colloquium	U. of Waterloo, Canada (online)
June 2020	An Algorithmic Reduction Theory for Binary Codes, CANTA Inaugural Seminar	Royal Holloway, London (online)
Nov. 2018	The General Sieve Kernel, Londonish Lattice Coding and Crypto Meeting	TU/e, Utrecht
Oct. 2018	The General Sieve Kernel, Séminaire Théorie des Nombres	U. of Bordeaux, France
Sep. 2018	The General Sieve Kernel, Londonish Lattice Coding and Crypto Meeting	RHUL and Imperial College, London
Sep. 2017	Shortest Vector from Lattice Sieving: A Few Dimension for Free, Monthly Lattice Meeting	ENS Lyon, France
Mar. 2017	Short Stickelberger Class Relations and application to Ideal-SVP, Monthly Lattice Meeting	ENS Lyon, France
Dec. 2016	Post-Quantum Cryptography from Lattices, CWI Scientific Meeting	CWI, Amsterdam, The Netherlands
Apr. 2016	What you should know on Lattice-based Cryptography to implement it, Cryptography Seminar	Royal Holloway, UK
Apr. 2016	New directions in nearest neighbor searching with applications to lattice sieving, ${\sf COMMSP}$ so	eminar Imperial College, UK
Dec. 2015	Fast Fourier Orthogonalization, Séminaire CCA	Télécom-ParisTech, France
Nov. 2015	New directions in nearest neighbor searching with applications to lattice sieving, Monthly Lat	tice Meeting ENS Lyon, France
Jun. 2015	Recovering Short Generators of Principal Ideals in Cyclotomic Rings, Seminaire Polsys	U. Paris VI, France
May 2015	Recovering Short Generators of Principal Ideals in Cyclotomic Rings, Cryptography Working Gro	up Utrecht, The Netherlands
Apr. 2015	Recovering Short Generators of Principal Ideals in Cyclotomic Rings, LACAL Seminar	EPFL, Switzerland
Feb. 2015	Exploration of the log-unit lattice $\operatorname{Log} \mathbb{Z}[\zeta_2^n]^{ imes}$, Monthly Lattice Meeting	ENS Lyon, France

Technological Transfer_____

Co-author of *NewHope* (industrial partners: ARM, NXP)

CANDIDATES TO THE NIST POST-QUANTUM CRYPTOGRAPHY STANDARDIZATION PROJECT @

Consultance of Fundary (1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	Experimented in the wild by Google 🗹
CO-author of Frodo (industrial partners: NXP, Google, Microsoft)	Post-Quantum Key Exchange
Co-author of <i>Kyber</i> (industrial partners: IBM, NXP, SRI Int.)	Post-Quantum Key Exchange
Co-author of Dilithium (industrial partners: IBM, NXP, SRI Int.)	Post-Quantum Signature
Initial Submission of these four candidates to the 1 st Round in December 2017	out of 72
All these four candidates have been selected for the 2^{nd} Round in January 2019	out of 28
Two candidates (Kyber and Dilithium) have been selected for the Final Round in July 20	020 out of 7

Final Selection of a Portfolio of Standards Expected for the second half of 2021. OTHERS

Co-author and developer of *BLISS* Co-author and developer of *FHEW*

Services_____

Workshop and Seminar organization	
Workshop: Mathematical Structures for Cryptography 🗷	Lorentz Center, Leiden, The Netherlands
Co-organized with Hendrik Lenstra, Alice Silverberg, Marco Streng.	22-26 Aug. 2016
Workshop: FPLLL Days C Co-organized with Marc Stevens, Martin Albrecht. Prometheus Consortium Meeting	CWI, Amsterdam, The Netherlands 06-14 Jul. 2017 CWI, Amsterdam, The Netherlands Apr. 2019
RISC seminars	CWI, Amsterdam, The Netherlands
Co-organized with Ronald Cramer, Marc Stevens, and Serge Fehr	2016 –
Joint Online Seminar (CWI, Royal Holloway, ENS Lyon)	Online
Co-organized with Damien Stehle & Martin Albrecht	2020 –

PH.D EXAMINATION

Post-Quantum Key Exchange

Compact Lattice-Based Signatures

Fully Homomorphic Encryption

2018	Guillaume Bonnoron, Jury Member	U. of Rennes
2018	Vincent Zucca, Jury Member	Sorbonne U., Paris
2019	Thomas Debris, Jury Member and Thesis Dissertation Referee	Sorbonne U., Paris
2020	Jiabo Wang, Jury Member and Thesis Dissertation Referee	Imperial College, London
OTHERS		

2019-2020	Open-Source and Open-Data Valorization Program, Co-proposed to the IACR Board with Martin Albrecht	
2020	Panel co-moderator, Panel Discussion on Contact Tracing	Eurocrypt 2020, Online
2018-	H2020 Consortium Administration and Coordination, Work Package Leader and Board Member	PROMETHEUS

Media & Outreach

COVERAGE

Oct 2019	Post-quantum geheimschrift 🕫 Dorine Schenk	NRC
Fev. 2019	Le NIST a annoncé les protocoles qui seront C. Philippe Paiot	La Recherche
May 2018	Op zoek naar guantumbestendige cryptografie (?. Pieter Edelman	Bits and Chips
Sep. 2016	Https: nu ook bestand tegen de quantumcomputer 🖓. Arnout Jaspers	NEMO, Kennislink
Jul. 2016	Experimenting with Post-Quantum Cryptography [7]. Matt Braithwaite	Google's Security blog
Nov. 2015	The Tricky Encryption That Could Stump Quantum Computers C. Natalie Wolchover	Wired (reprint)
Nov. 2015	A Tricky Path to Quantum-Safe Encryption 🗷, Natalie Wolchover	Quanta Magazine
OUTREA	СН	
Nov. 2018	Traquer les failles des Algorithmes, Léo Ducas	La Recherche
Feb. 2018	Preparing ourselves for the threats of the Post-Quantum Era, Thijs Veugen, Thomas Atter	ma, Maram van ERCIM NEWS
	Heesch, Léo Ducas	
Sept. 2017	Advances on Quantum Cryptanalysis of Ideal Lattices, Léo Ducas	Nieuw Archief voor Wiskunde
Aug. 2015	L'eldorado post-quantique, Léo Ducas	La Recherche
Jan. 2015	Un cryptographie Nouvelle: le réseau euclidien, Léo Ducas	Linux Magazine FR
Dec. 2014	Démocratiser la cryptographie, Léo Ducas	Linux Magazine FR
Jun. 2014	Les dessous géométriques de Cryptris, Léo Ducas	Images des Mathématiques (CNRS's blog)
Jun. 2014	Comprendre une des techniques les plus sophistiquées de cryptographie en	Images des Mathématiques (CNRS's blog)
	jouant à Tetris, Anthony Teston, Mathieu Jouhet, Léo Ducas, Thierry Viéville	

Collaborations

IN THE NETHERLANDS

NL	CWI, Cryptology Group, Ronald Cramer, Marc Stevens	Research, Software, H2020 Grant
NL	CWI, Algorithms and Complexity Group, QuSoft, Stacey Jeffery, Ronald de Wolf	Research
NL	CWI, Networks and Optimization Group, Daniel Dadush	Research
NL	Leiden U., Mathematical Institute, Peter Bruin, Marco Streng, Hendrik Lenstra	Teaching, Student (Co-)Supervision, Conf. Organization
NL	Radboud University Nijmegen, Digital Security Group, Peter Schwabe	Research, Software, Standardization
INTERN	ATIONAL	
FR	ENS Lyon, Computing and Parallelism Lab., AriC Team, Damien Stehlé	Research, Student Supervision, Software
SW	IBM Zurich, Security Group, Vadim Lyubashevsky, Thijs Laarhoven	Research, Standardization, H2020 Grant
BE	NXP, Leuven, Innovation Center Crypto and Security, Joppe Bos	Research, Standardization, H2020 Grant
USA	New-York U., Courant Institute of Mathematical Sciences, Oded Regev	Research
UK	Royal Holloway, Information Security Group, Martin Albrecht, Kenny Paterson	Research, Software, H2020 Grant
USA	UC San-Diego, Computer Science Dept., Daniele Micciancio	Research, Software

Scientific Publications

BIBLIOMETRY

Peer-reviewed publications: 34 H-index: 24 Citations: 3918,

according to Google Scholar 🗷

PRE-PRINTS

2020	An Algorithmic Reduction Theory for Binary Codes: LLL and more, Thomas Debris-Alazard, Léo Ducas,	Pre-Print
2020	wesset P.J. van woerden Advanced Lattice Sieving on GPUs, with Tensor Cores, Léo Ducas, Wessel P.J. van Woerden. Marc Stevens	In Submission
PEER-F	REVIEWED PUBLICATIONS	
	Mildly short vectors in cyclotomic ideal lattices in guantum polynomial time. Popald Cramor Léo Ducas	lournal of the ACM
2020	Beniamin Wesolowski	(To Appear)
	Random Self-reducibility of Ideal-SVP via Arakelov Random Walks, Koen de Boer, Léo Ducas, Alice	
	Pellet-Mary, Benjamin Wesolowski	Crypto
	LWE with Side Information: Attacks and Concrete Security Estimation, Dana Dachman-Soled, Léo Ducas,	Country
	Huijing Gong, Mélissa Rossi	Crypto
	The randomized slicer for CVPP: sharper, faster, smaller, batchier, Léo Ducas, Thijs Laarhoven, Wessel P.J.	DKC
	van Woerden	FAC
	On the Quantum Complexity of the Continuous Hidden Subgroup Problem, Koen de Boer, Léo Ducas,	Furocrypt
	Serge Fehr	Eurocrypt
	Integral Matrix Gram Root and Lattice Gaussian Sampling without Floats, Léo Ducas, Steven Galbraith,	Eurocrypt
	Thomas Prest, Yang Yu	51
2019	On the Shortness of Vectors to be found by the Ideal-SVP Quantum Algorithm, Léo Ducas, Maxime	Crypto
	Plançon, Benjamin Wesolowski	
	The General Sieve Kernel and New records in Lattice Reduction, Martin R. Albrecht, Leo Ducas, Gottfried	Eurocrypt
2010	Herold, Elena Kirshanova, Eamonn W. Postlethwaite, Marc Stevens	
2018	Learning strikes again: the case of the DRS signature scheme, Leo Ducas, Yang Yu	Asiacrypt
	On the Statistical Leak of the GGH is multilinear map and some variants, Leo Ducas, Alice Pellet-Mary	Asiacrypt
	Léo Ducos, Cécilo Distance Decouring near Minikowski s Bound in Discrete Logarithm Lattices,	Design, Codes and
	Leo Ducas, Ceche Fienot	Africacrypt
	Shortest Vector from Lattice Sieving: A Few Dimension for Free Léo Ducas	Eurocrypt
	CRYSTALS - Kyber: a CCA-secure module-lattice-based KEM. Joppe Bos. Léo Ducas. Fike Kiltz. Tancrède	Eurocrypt
	Lepoint. Vadim Lyubashevsky. John Schanck. Peter Schwabe. Damien Stehlé	Euro S&P
	CRYSTALS – Dilithium: digital signatures from module lattices. Léo Ducas. Tancrède Lepoint. Vadim	
	Lyubashevsky, Peter Schwabe, Gregor Seiler, Damien Stehlé	CHES
	Hash Proof Systems over Lattices Revisited, Fabrice Benhamouda, Olvier Blazy, Léo Ducas, Willy Quash	РКС
2017	Second Order Statistical Behavior of LLL and BKZ, Léo Ducas, Yang Yu	Published at SAC
	The closest vector problem in tensored root lattices of type A and in their duals, Léo Ducas, Wessel van	Design, Codes and
	Woerden	Cryptography
	Short Stickelberger Class Relations and application to Ideal-SVP, Ronald Cramer, Léo Ducas, Benjamin	Eurocrypt
	Wesolowski	
2016	Frodo: Take off the ring! Practical, Quantum-Secure Key Exchange from LWE, Joppe Bos, Craig Costello,	CCS
	Léo Ducas, Ilya Mironov, Michael Naehrig, Valeria Nikolaenko, Ananth Raghunathan and Douglas Stebila	
	A subfield lattice attack on overstretched NTRU assumptions, Martin Albrecht, Shi Bai and Léo Ducas	Crypto
	Fast Fourier Orthogonalization, Léo Ducas and Thomas Prest	ISSAC
	Post-Quantum Key Exchange – A New Hope, Erdem Alkim, Léo Ducas, Thomas Poeppelmann and Peter Schwabe	USENIX security
	Sanitization of FHE Ciphertexts, Léo Ducas and Damien Stehlé	Eurocrypt
	New directions in nearest neighbor searching with applications to lattice sieving, Anja Becker, Léo Ducas,	SODA
	Nicolas Gama and Thijs Laarhoven	
	Recovering Short Generators of Principal Ideals in Cyclotomic Rings, Ronald Cramer, Léo Ducas, Chris	Eurocrypt
	Peikert and Oded Regev	
	FILW: BOOTSTRAPPING HOMOMORPHIC ENCRYPTION IN LESS THAN A SECOND, Leo Ducas and Daniele Micciancio	Eurocrypt
2014	Endent identity-based Encryption over NIKU Lattices, Leo Ducas and Vadim Lyubashevsky and Thomas	Asiacrypt
	Mesu	Conto
	Enhanced Lattice-Based Signatures on Reconfigurable Hardware. Thomas Depolment and Life Duces and	стурю
	Tim Güneysu	CHES

2013	Lattice Signatures and Bimodal Gaussians, Léo Ducas and Alain Durmus and Tancrède Lepoint and Vadim	Crypto
	Lyubashevsky	
2012	Learning a Zonotope and More: Cryptanalysis of NTRUSign Countermeasures, Léo Ducas and Phong	Asiacrypt
	Nguyen	
	Faster Gaussian Lattice Sampling using Lazy Floating-Point Arithmetic, Léo Ducas and Phong Nguyen	Asiacrypt
	Ring-LWE in Polynomial Rings, Léo Ducas and Alain Durmus	РКС
2010	Anonymity from Asymmetry: New Constructions for Anonymous HIBE, Léo Ducas	CT-RSA