Arthur HERLÉDAN LE MERDY PhD Student in isogeny-based cryptography

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Education	1			
PhD	in Mathematics and Computer Science in the UMPA laboratory at the ENS de Lyon, under the supervision of Benjamin Wesolowski and Guillaume Hanrot			
MSc	in Mathematics and Applications, Mathematics of Information, Cryptography, with a focus on Fundamental Research, at the University of Rennes 1			
Exchange	program in Mathematics at the University of Göttingen, Germany (Interrupted due to COVID)			
BSc	in Mathematics and Applications at the University of Rennes 1	2016-2019		
BAC S	French High School Diploma in Science			
BAC STD2A	French High School Diploma in Design and Applied Arts	2015		
Publication	ons			
	PEGASIS: Practical Effective Class Group Action using 4-Dimensional Isogenies accepted in Crypto 2025 with Pierrick Dartois, Jonathan Komada Eriksen, Tako Boris Fouotsa, Riccardo Invernizzi, Damien Robert, Ryan Rueger, Frederik Vercauteren and Benjamin Wesolowski Cryptology ePrint Archive ☑	2025		
	The supersingular endomorphism ring problem given one endomorphism published in Communications in Cryptology, Volume 2, Issue 1 with Benjamin Wesolowski Cryptology ePrint Archive ☑	2025		
Preprint .				
	Unconditional foundations for supersingular isogeny-based cryptography with Benjamin Wesolowski Cryptology ePrint Archive ☑	2025		
Talks				
	Unconditional foundations for supersingular isogeny-based cryptography Journées Codage et Cryptographie, Pornichet, France	Apr 2025		
	Unconditional foundations for supersingular isogeny-based cryptography CASCADE seminar, Paris, France	Jan 2025		
	Unconditional foundations for supersingular isogeny-based cryptography CANARI seminar, Bordeaux, France	Nov 2024		
	Unconditional relations between hard problems in isogeny-based cryptography Leuven Isogeny Days 5, KU Leuven, Belgium	Sep 2024		
	The endomorphism ring problem given one endomorphism Isogeny Club, online	Apr 2024		
	Post-quantum key exchange using class group actions on oriented supersingular elliptic curves Séminaire d'arithmétique de Lyon, ENS de Lyon, France	Nov 2023		
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The endomorphism ring problem given an endomorphism

Journées Codage et Cryptographie, Najac, France

Teaching _____

LIFAPI - Introduction to Imperative Programming	2024-2025
Deale de vie in Mathematica and Committee Caianas, University of Lyan 1/1st Vear	

Bachelor's in Mathematics and Computer Science, University of Lyon 1 (1st Year)

Cryptography and security 2023-2024

Master's in Computer Science, ENS de Lyon (1st Year)

Computer Algebra 2022-2023

Master's in Computer Science, ENS de Lyon (1st Year)

Technical Skills _____

Programming Languages: C, Python, Java, Racket

Computer algebra system: SageMath, Maple, Magma, PARI/GP

Languages ____

French (Native)

English (Fluent)

German (Intermediate)

Russian, Esperanto (Beginner)