

Nikita Kolesnikov

CONTACT INFORMATION	I. Kant BFU Nevskogo St. 14 236016 Kaliningrad, Russia	+79114694388 NiKolesnikov1@kantiana.ru https://crypto-kantiana.com/nikita.kolesnikov/
POSITIONS	Teaching assistant Immanuel Kant Baltic Federal University Institute of Physics, Mathematics and Information Technology	September 2019 - present
	PhD Candidate Immanuel Kant Baltic Federal University Institute of Physics, Mathematics and Information Technology	September 2018 - present
	Engineer TECHNICALSERVICE Ltd. Serzhanta Mishina str. 22A, room II 236010 Kaliningrad, Russia	april 2015 - present
RESEARCH INTERESTS	Algebraic geometry, hyperelliptic curve cryptography, number theory, linear algebra, coding theory, function fields.	
EDUCATION	Dipl. Math. I. Kant Baltic Federal University Kaliningrad, Russia	January 2018
	<ul style="list-style-type: none"> • Topic: <i>A family of linear codes construction based on a Galois closure of the GS Tower</i> • Advisor: Dr. Sergey Aleshnikov 	
CONFERENCE PUBLICATIONS	<ol style="list-style-type: none"> 1. N. S. Kolesnikov, S. A. Novoselov. <i>On the distribution of orders of Frobenius action on ℓ-torsion of abelian surfaces</i>. The scientific journal "Applied Discrete Mathematics". ISSN 2311-2263 // issue 48, 2020. DOI: 10.17223/20710410/48/3 2. E. A. Kirshanova, N. S. Kolesnikov, E. S. Malygina, S. A. Novoselov. <i>Post-quantum signature proposal for standardisation</i>. The scientific journal "Applied Discrete Mathematics. Supplement" // issue 13, 2020. DOI: 10.17223/2226308X/13/14 3. N. S. Kolesnikov, S. A. Novoselov. <i>On the order of the Frobenius endomorphism action on ℓ-torsion subgroup of abelian surfaces</i>. SibeCrypt 2019. 4. N. S. Kolesnikov, S. A. Novoselov. <i>Abelian surfaces over a finite field with prescribed Frobenius action on ℓ-torsion subgroup</i>. XVII All-Russian Youth School-Conference "Lobachevsky readings-2018". 5. N. S. Kolesnikov. <i>On the local properties of plane algebraic curves in singular points</i>. IKBFU Days of science, Volume: 1, 91–98, 2014. 	
TEACHING EXPERIENCE	Lecturer Master – Information theory I. Kant BFU	2021–2022

	Bachelor – Web programming with PHP I. Kant BFU	2018–2020
	Teaching Assistant	
	Bachelor – Web programming with PHP I. Kant BFU	2018–2020
	Master – Data protection in computer networks	2019
AWARDS	<ul style="list-style-type: none"> • Erasmus+ International Credit Mobility (funded by the European Commission at Leipzig University) Apr.-Aug. 2019 • Euler Travel Grant (visit at the University of Leipzig) Feb. 2018 	
PRESENTATIONS	<ul style="list-style-type: none"> • Towards generalization of SEA to hyperelliptic curves Conference ECC-2019: 23rd Workshop on Elliptic Curve Cryptography Ruhr-Universität Bochum, Germany December 2019 • On the order of the Frobenius endomorphism action on ℓ-torsion subgroup of abelian surfaces SibeCrypt, Tomsk, Russia September 2019 • Abelian surfaces over a finite field with prescribed Frobenius action on ℓ-torsion subgroup Lobachevsky readings, Kazan, Russia November 2018 	
LANGUAGES	<ul style="list-style-type: none"> • English (intermediate) • Russian (native) 	
PROGRAMMING SKILLS	<ul style="list-style-type: none"> • Computer computations: Sage, Maple, Magma • Development for Web: PHP, HTML/CSS, JavaScript • Development for microcontrollers: MikroC, Assembler @PIC16 	