Curriculum Vitae for Evgeniy Lokharu

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Contact information Linköping University, MAI 581 83 Linköping, Sweden Mobile: +46762938165 E-mail: evgeniy.lokharu@liu.se		Personal information Date of birth: December 2, 1985 Nationality: Russian Adress: Storskiftesgatan 1, 58 334 Linköping, Sweden	
Academic position	Postdoctoral researcher Linköping University Linköping, Sweden Advisor: Vladimir Kozlov (vladimir.kozlov@liu.se)	April 2019 to March 2021 u.se)	
Education	 ucation (2nd) Ph.D., Linköping University, MAI, Linköping, Sweden Thesis: Small-amplitude steady water waves with vorticity Advisor: Vladimir Kozlov (vladimir.kozlov@liu.se) 		
	 (1st) Ph.D., , V. A. Steklov Institute of Mathematics, St. Petersburg, Russia 2011 Thesis: Multiplicative inequalities for maximal functions measuring smoothness Advisor: Sergey Kislyakov (skis@pdmi.ras.ru) 		
	 Specialist (equivalent to B.S. + M.S.), Saint-Petersburg State University, Russia. Thesis: On isomorphic classification of spaces of analytic functions Advisor: Sergey Kislyakov (skis@pdmi.ras.ru) graduated cum laude 		
Awards and Grants	 Romberg Grant for participating in Heidelberg Laur Rokhlin stipendium for young researchers from St. H Mathematical Society, Russia. Finalist of Möbius Contest for young researchers, Me Chebyshev's Laboratory scholarship for PhD researc Intel ISEF 2nd Award in Mathematics for school study 	eate Forum, Germany 2016 Petersburg 2011 - 2012 oscow, Russia 2011 hers, Russia 2010 - 2012 idents, USA. 2003	
Previous employments	Postdoctoral fellow Lund University, Sweden Supervisor: Erik Wahlén (erik.wahlen@math.lu.se) Research time: 100% Project: three-dimensional steady water waves with vortic	April 2017-March 2019 ity over Beltrami flows	
	 PhD student Linköping University, Sweden Supervisor: Vladimir Kozlov (vladimir.kozlov@liu.se) Research time: 80%, Teaching time: 20% Project: small-amplitude steady water waves with vorticity 	January 2013-March 2017 y	
	Young researcher Chebyshev Laboratory, Saint-Petersburg, Russia	January 2011-April 2012	

Research time: 100%

Research experience

Teaching assistant January 2009-March 2012 Peter the Great St. Petersburg Polytechnic University, Russia. Teaching time: 100% (problem solving, grading) Courses: calculus, analysis of one variable, ordinary differential equations, linear algebra, geometry. Colloquium talk Linköping University, Sweden October 10, 2018 Title: Three-dimensional steady water waves with vorticity Seminar talk Lund University, Sweden February 9, 2018 Title: Separation of singularities of analytic functions Invited talk Conference on Mathematics of Wave Phenomena July 23–27, 2018 Karlsruhe, Germany Title: Multi-modal and non-symmetric steady water waves with vorticity **Invited speaker** Workshop on Fluid Dynamics and Dispersive Equations June 25–29, 2018 Lund, Sweden Title: Local bifurcation of three-dimensional doubly-periodic steady water waves with vorticity Participation to Summer School Waves in Flows August 27-31, 2018 Prague, Czech Republic **Participation to** Workshop on Nonlinear water waves - an interdisciplinary interface December 4-7, 2017 Vienna, Austria Seminar talk Trondheim University, Norway November 13, 2017 Title: Small-amplitude steady water waves with vorticity Invited talk Meeting of the Catalan, Spanish, Swedish Math Societies June 12-15, 2017 Umeo, Sweden Title: Small-amplitude steady water waves with vorticity Seminar talk Saarland University, Germany May 17, 2017 Title: Small-amplitude steady water waves with vorticity Participation to Heidelberg Laureate Forum September 18–23, 2016 Heidelberg, Germany Contributed talk Conference on Nonlinear waves – Theory and Applications June 25–28, 2016 Beijing, China Title: Steady gravity water waves of small amplitude Invited talk Nordic Congress 2016 March 16–20, 2016 Stockholm, Sweden Title: Quasi-periodic steady water waves with vorticity

	Invited talk Conference Algoritmy 2016 Podbanske, Slovakia Title: Steady water waves with vorticity	March 13–18, 2016		
	Invited talk Meeting of Swedish Mathematical SocietyNovember 20, 2015Norrköping, SwedenTitle: On the Benjamin-Lighthill conjecture for water waves with vorticity			
	Contributed talk Conference WAVES 2015 Karlsruhe, Germany Title: Uniqueness and stability results on the gravity water waves with	July 20–24, 2015 vorticity		
	Contributed talk Conference EquaDiff 2015 Lyon, France Title: Uniqueness and stability results on steady water waves with vort	July 6–10, 2015 icity		
	Invited talk Workshop on Mathematical Theory of Water Waves Obervolfach, Germany Title: Non-existence of solitary waves of depression in the presence of v	April 12–18, 2015 orticity		
	Participation to Summer school Mini-courses on analysis and PDEs Padova, Italy	June 22–26, 2014		
	Participation to European-Nordic Congress of Mathematicians Lund, Sweden	June 9–13, 2013		
	Guest research visit, Kent State University, Ohio.	tober-November 2012		
Teaching experience	Linköping university, Sweden			
	InstructorMathematical analysis, linear algebra.Responsibilities: problem solving, grading exams.	2013 to 2017		
	SupervisionBachelor thesis in mathematics.Responsibilities: formulation of the problem, supervision.	2017		
	Peter the Great St. Petersburg Polytechnic University			
	Teaching Assistant, all semesters	2009 - 2012		
	linear algebra, geometry, calculus, ordinary differential equations.Responsibilities: problem solving, designing tests, grading.			
	Trainer	spring 2011		
	Mathematics.Responsibilities: training a team in order to participate to a mathematical Olympiad.			
	Laboratory of continuous mathematical education (school)			
	Lecturer	2004 - 2008		

- Advanced courses in mathematics (introduction to metric spaces, measure theory, linear vector spaces, group theory)
- Responsibilities: lectures, problem solving, grading.

Publications

- Lokharu, E., Wahlén, E.: Variational principle for three-dimensional water waves with vorticity, Nonlinear Analysis, Vol. 184 (2019), 193–209.
- [2] Kozlov, V., Kuznetsov, N., Lokharu, E.: Two-dimensional solitary waves of elevation over constant vorticity flows with a near-bottom stagnation, preprint arXiv:1904.00401.
- [3] Kozlov, V., Lokharu, E.: Small-amplitude steady water waves with critical layers: nonsymmetric waves, Journal of Differential Equations (2019).
- [4] Kozlov, V., Lokharu, E.: N-Modal Steady Water Waves with Vorticity, J. Math. Fluid Mech. Vol. 20 (2018), 853–867.
- [5] Kozlov, V., Kuznetsov, N., Lokharu, E.: On the Benjamin–Lighthill conjecture for water waves with vorticity. Journal of Fluid Mechanics, 825, (2017), 961–1001.
- [6] Kozlov, V., Kuznetsov, N., Lokharu, E.: On bounds and non-existence in the problem of steady waves with vorticity. Journal of Fluid Mechanics, 765, R1, (2015), 961–1001.
- [7] Kozlov, V., Kuznetsov, N., Lokharu, E.: Steady water waves with vorticity: an analysis of the dispersion equation. Journal of Fluid Mechanics, 751, R3 (2014).
- [8] Lokharu, E.: Interpolation inequalities for maximal functions that measure smoothness, St. Petersburg Math. J. 24 (2013), 327–351.
- [9] Lokharu, E.: Gagliardo-Nirenberg inequality for maximal functions measuring smoothness, J. Math. Sci. (2012) 182: 663.
- [10] Lokharu, E.: Maximal functions measuring smooytness: counterexamples, Zap. Nauchn. Sem. POMI, Vol. 397 (2011), 53–72.