

Maxim I. Bolotov

Curriculum Vitae

	Personal Data
Date of Birth	18 July 1992
Citizenship	Russia
Current	
positions	 Ph.D Student, Department of Control Theory and System Dynamics, Nizhny Novgorod State University, Russia. Junior Researcher, Department of Supercomputer Technologies of Computa-
	tional Mathematics, The Research Institute of Supercomputing, Nizhny Novgorod State University, Russia.
Research	
	Physics, Chimera State.
h-index (scopus)	1
	Education
06 2016	
00.2010	Master of Computer Science and Information Technology (with honors), Nizhny Novgorod State University, Nizhny Novgorod, Russia.
06.2014	Nizhny Novgorod State University, Nizhny Novgorod, Russia.
06.2014	Nizhny Novgorod State University, Nizhny Novgorod, Russia. Bachelor of Information Technology (with honors), Nizhny Novgorod State
06.2014	Nizhny Novgorod State University, Nizhny Novgorod, Russia. Bachelor of Information Technology (with honors), Nizhny Novgorod State University, Nizhny Novgorod, Russia.
06.2014 06.2010	Nizhny Novgorod State University, Nizhny Novgorod, Russia. Bachelor of Information Technology (with honors), Nizhny Novgorod State University, Nizhny Novgorod, Russia. Secondary education (with honors), School 7, Murom, Vladimir region, Russia. Masters Thesis
06.2014 06.2010 Title	Nizhny Novgorod State University, Nizhny Novgorod, Russia. Bachelor of Information Technology (with honors), Nizhny Novgorod State University, Nizhny Novgorod, Russia. Secondary education (with honors), School 7, Murom, Vladimir region, Russia.
06.2014 06.2010 Title	Nizhny Novgorod State University, Nizhny Novgorod, Russia. Bachelor of Information Technology (with honors), Nizhny Novgorod State University, Nizhny Novgorod, Russia. Secondary education (with honors), School 7, Murom, Vladimir region, Russia. Masters Thesis Collective dynamics of the ensembles of oscillators coupled via common field
06.2014 06.2010 Title Supervisors	Nizhny Novgorod State University, Nizhny Novgorod, Russia. Bachelor of Information Technology (with honors), Nizhny Novgorod State University, Nizhny Novgorod, Russia. Secondary education (with honors), School 7, Murom, Vladimir region, Russia. Masters Thesis Collective dynamics of the ensembles of oscillators coupled via common field Professor Grigory Osipov

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Positions

- 10.2016– **Ph.D Student**, *Department of Control Theory and System Dynamics*, Nizhny Novgorod State University.
- 04.2016– **Junior Researcher**, Department of Supercomputer Technologies of Computational Mathematics, The Research Institute of Supercomputing, Nizhny Novgorod State University.
- 10.2015– Junior Researcher, Laboratory of Dynamics of Complex Systems, Department of
- 03.2016 Control Theory and System Dynamics, Nizhny Novgorod State University.
- 04.2014 Assistant, Laboratory of Dynamics of Complex Systems, Department of Control
 09.2015 Theory, Nizhny Novgorod State University.

Professional Experience

Visitor

10.2015 **Visiting Researcher**, *Potsdam University*, Statistical Physics and Theory of Chaos Group, Germany.

Topic of the research: "Marginal chimera states".

08.2014 **Visiting Researcher**, *Potsdam University*, Statistical Physics and Theory of Chaos Group, Germany.

Topic of the research: "Chimera states".

Conference

- 10.2016 11-th International School on "Chaotic Oscillations and Pattern Formation", Nizhny Novgorod, Russia.
 Report type: poster.
 Topic of the report: "Collective dynamics of rotators coupled via common impulse field".
 Authors: Bolotov M.I., Osipov G.V.
- 07.2016 III International Conference "Dynamics, Bifurcations, and Strange Attractors", Nizhny Novgorod, Russia. Member of the organizing committee. Report type: poster.

Topic of the report: "Collective dynamics of rotators coupled via common impulse field". Authors: **Bolotov M.I.**, Osipov G.V.

- 02.2016 School-Conference "Nonlinear Waves-2016", Nizhny Novgorod, Russia. Report type: poster. Topic of the report: "Marginal chimera state at cross-frequency locking of neural networks". Authors: Bolotov M.I., Osipov G.V., Pikovsky A.
- 12.2015 International Conference on Dynamical Systems "Shilnikov Workshop-2015", Nizhny Novgorod, Russia.
 Report type: report.
 Topic of the report: "Marginal chimera state at cross-frequency locking of pulse-coupled neural networks".
 Authors: Bolotov M.I., Osipov G.V., Pikovsky A.

- 12.2014 International Conference on Dynamical Systems "Shilnikov Workshop-2014", Nizhny Novgorod, Russia.
 Report type: report.
 Topic of the report: "Synchronization in ensembles of pulse coupled neuronal integrate-andfire oscillators".
 Authors: Bolotov M.I., Osipov G.V.
- 10.2014 Russian-Dutch/EU Workshop on Computational Biomedicine, Amsterdam, Netherlands.
 Report type: poster.
 Topic of the report: "Synchronization in ensembles of pulse coupled neuronal integrate-and-fire oscillators".
 Authors: Bolotov M.I., Osipov G.V., Pikovsky A.

Selected Publications

- 2016 M.I. Bolotov, G.V. Osipov. Collective Dynamics of Rotators Coupled by a Common Pulsed Field. Technical Physics Letters, Vol. 42, No. 12, pp. 1152-1154, 2016.
- 2016 M.I. Bolotov, G.V. Osipov, A.Pikovsky. Marginal chimera state at crossfrequency locking of pulse-coupled neural networks. Phys. Rev. E 93, 032202, 2016.
- 2015 Belykh V.N., Bolotov M.I., Osipov G.V. Kuramoto Phase Model with Inertia: Bifurcations Leading to the Loss of Synchrony and to the Emergence of Chaos. Modeling and Analysis of Information Systems. 2015;22(5):595-608.

Computer skills

Programming C++, Python, C# Languages Mathematical MatLab, Mathematica Packages

Languages

Russian Mothertongue English Intermediate