

# Albert Samoilenka

*Curriculum Vitae*

## PERSONAL DETAILS

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<i>Birth</i>	15.11.1994, Minsk, Belarus
<i>Nationality</i>	Belarus
<i>Address</i>	lane Dubravinski 5-18, Minks, Belarus, 220089
<i>Mail</i>	samoilenkoalbert@gmail.com

## EDUCATION

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<b>Gymnasium 12</b> <i>Minsk, Belarus</i>	2001-2010
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<b>Gymnasium 29</b> <i>Minsk, Belarus</i>	2010-2012
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<b>BSU, The Faculty of Physics</b> <i>Minsk, Belarus</i>	2012-present
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## WORK EXPERIENCE

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<b>Part time school physics teacher</b> <i>Gymnasium 29, Minsk, Belarus</i>	2012-2013
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Pupils preparation for Physics Olympiad (Optional course)

<b>Part time physics teacher</b> <i>NCC "Zubrenok", Belarus</i>	Summer 2013
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Pupils preparation for Physics Olympiad

## SKILLS

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<i>Languages</i>	Russian (native) Belarusian (native) English (fluent)
<i>Software</i>	C++, C#, Delphi, Wolfram Mathematica, L <sup>A</sup> T <sub>E</sub> X
<i>Systems</i>	LINUX, MS Windows

## RESEARCH SUMMARY

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Main research area of my studies is related with Mathematical Physics and various problems of Nonlinear Physics. More precisely, I consider topological solitons in different models. Recently under supervision of Prof. Shnir I carried out work on Gauged multisoliton baby Skyrme model with and without Chern-Simons term. Results of this study were published in [1,2]. Currently I am working on Hopfions in the 3-dimensional Skyrme-Faddeev model. In order to solve these problems, I have developed numerical minimization technic for energy functional.

## **AWARDS**

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- First Prize of Special Funds of the President of the Republic of Belarus for XIX Republic Young Physicists' Tournament, 2011
- Second Prize of Special Funds of the President of the Republic of Belarus for XX Republic Young Physicists' Tournament, 2012
- Gold medal on Belarusian Physics Olympiad, Belarus, 2012
- Gold medal on 43rd International Physics Olympiad (IPhO), Estonia 2012
- First Prize of Special Funds of the President of the Republic of Belarus for 43rd IPhO with Delivery of the Breastplate of the Laureate
- Silver medal on 2nd World Physics Olympiad (WoPhO), Indonesia 2012
- Gold medal on Xth International Engineering Mechanics Contest, Belarus, 2014
- Prize of Special Funds of the President of the Republic of Belarus for Xth International Engineering Mechanics Contest, 2014
- Silver medal on XIth International Engineering Mechanics Contest, Belarus 2015
- 2nd place on JINR Youth Prize Competition of The XX International Scientific Conference of Young Scientists and Specialists, Dubna 2016

## **ATTENDED CONFERENCES, SCHOOLS AND PRACTICES**

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- Student Practice in JINR Fields of Research (3rd stage) Dubna, Russia, September 7 - 25, 2015
- Visit to Department of Physics at the School of Mathematics and Natural Sciences of the University of Oldenburg within the Ostpartnerschafts-Programme, 30. November - 7. December, 2016.
- The XX International Scientific Conference of Young Scientists and Specialists, Dubna, 14-18 March, 2016
- The Helmholtz International School "Cosmology, Strings, New Physics" organized by the Bogoliubov Laboratory of Theoretical Physics, JINR, in the framework of the program DIAS-TH, Dubna, Russia, 28 August- 10 September, 2016
- 50-th Annual Winter School St.Petersburg Nuclear Physics Institute NRC KI 29 February – 5 March, 2016

## **PUBLICATIONS**

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- 1 A. Samoilenka and Y. Shnir, "Gauged multisoliton baby Skyrme model", Phys. Rev. D **93** (2016) 065018
- 2 A. Samoilenka and Y. Shnir, "Gauged baby Skyrme model with a Chern-Simons term", Phys Rev D **95**, 045002 (2017)