




**Vladyslav
Kuchkin**


DATE OF BIRTH:
25/11/1994

CONTACT


Nationality: Ukrainian

Gender: Male

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WORK EXPERIENCE

01/08/2018 - CURRENT

Physicist

Forschungszentrum Jülich GmbH

Theme: Theory of hybrid magnetic solitons in chiral magnets
Co-Supervisor: Dr. Nikolai Kiselev,

Supervisor: Prof. Dr. Stefan Blügel, RWTH Aachen
Jülich, Germany

01/10/2015 - 31/12/2017

Physicist

National Academy of Sciences Institute of Magnetism

Scientific project: "Development of the physical bases of the new systems of magnetic memory and information processing systems"

Kyiv, Ukraine

EDUCATION AND TRAINING

01/10/2019 - CURRENT - Aachen, Germany

PhD student

Rheinisch-Westfälische Technische Hochschule Aachen

01/09/2016 - 31/05/2018 - Kyiv, Ukraine

Master Degree in Applied Physics

Igor Sikorsky Kyiv Polytechnic Institute

Supervisor: Prof. Dr. Olena Gomony

Thesis: "Spin current induced dynamics of antiferromagnetic nanowire with strong magnetoelastic coupling"

01/09/2012 - 30/06/2016 - Kyiv, Ukraine

Bachelor Degree in Applied Physics

Igor Sikorsky Kyiv Polytechnic Institute

Supervisor: Prof. Dr. Olena Gomony

Thesis: "Magnetic dynamics and state manipulation of noncollinear antiferromagnet by spin current"

LANGUAGE SKILLS

MOTHER TONGUE(S): Russian, Ukrainian

OTHER LANGUAGE(S):

English

Listening
B1

Reading
B2

**Spoken
production**
B1

**Spoken
interaction**
B1

Writing
B1

German

Listening
A2

Reading
A2

**Spoken
production**
A2

**Spoken
interaction**
A2

Writing
A2

PUBLICATIONS

Publications

1. Vladyslav M. Kuchkin et al., Geometry and Symmetry in Skyrmion dynamics, [arXiv:2104.02342](https://arxiv.org/abs/2104.02342) (PRB accepted).
2. Vladyslav M. Kuchkin et al., Magnetic skyrmions, chiral kinks, and holomorphic functions. Phys. Rev. B **102**, 144422 (2020).
3. Vladyslav M. Kuchkin and Nikolai S. Kiselev, Turning a chiral skyrmion inside out. Phys. Rev. B **101**, 064408 (2020).

CONFERENCES AND SEMINARS

Conferences

1. SIAM conference, Bilbao, Spain 17 -- 27 May, 2021, Geometry of skyrmion dynamics (oral talk).
2. Workshop, Bad Honnef, Germany, 2 -- 4, September, 2020, Diverse 2D and 3D chiral solitons and their dynamical properties (oral talk).
3. Workshop, Mainz, Germany, 17 -- 19, 2019, Skyrmions in tilted magnetic field (oral talk)
4. Workshop, Bad Honnef, Germany, 1 -- 5, December, 2019, Truning chiral skyrmion inside out (poster).
5. DPG Conference, Regensburg, Germany, 31.03.2019 -- 05.04.2019, Solitons in 2D chiral magnets stabilized by a tilted magnetic field (oral talk).

JOB-RELATED SKILLS

Job-related skills

C/C++, Go, Cuda,
Matlab, Mathematica, R,
Magnoom, MuMax3, Inkscape, LaTeX

PARTICIPATION IN SUMMER SCHOOLS

Participation in summer schools

1. 49th IFF Spring School "Physics of Life", Forschungszentrum Jülich, Germany, 2018.
2. Autumn School on Correlated Electrons, Forschungszentrum Jülich, Germany, 2017.
3. 48th IFF Spring School "Topological Matter -- Topological Insulators, Skyrmions and Majoranas", Forschungszentrum Jülich, Germany, 2017.
4. 47th IFF Spring School "Memristive Phenomena -- From Fundamental Physics to Neuromorphic Computing", Forschungszentrum Jülich, Germany, 2016.