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List of publications

- [1] *Experimental bounds on sterile neutrino mixing angles*, *JHEP* **06** (2012) 100 [[1112.3319](#)] with Oleg Ruchayskiy [Chapter 2]
- [2] *Restrictions on the lifetime of sterile neutrinos from primordial nucleosynthesis*, *JCAP* **1210** (2012) 014 [[1202.2841](#)] with Oleg Ruchayskiy [Chapter 3]
- [3] *A facility to Search for Hidden Particles at the CERN SPS: the SHiP physics case*, CERN-SPSC-2015-017 (2015) [[1504.04855](#)] with Sergey Alekhin, Wolfgang Altmannshofer, Takehiko Asaka, Brian Batell, Fedor Bezrukov, Kyrylo Bondarenko, Alexey Boyarsky and others. [Chapter 2]
- [4] *Chiral magnetic current and finite fermion masses* with Alexey Boyarsky and Oleg Ruchayskiy, in preparation. [Chapter 4]
- [5] *Long-range magnetic fields from parity-violating interactions in renormalizable gauge theories* with Alexey Boyarsky and Oleg Ruchayskiy, in preparation. [Chapter 5]

Curriculum vitæ

I was born in Kiev, Ukraine, on the 4th of November 1987. I have received the primary education at the Gymnasium No. 136, and the secondary education at the Lyceum No. 171 in Kiev, with specialization in mathematics.

After finishing high school, I entered the Physics Department of the Kiev Taras Shevchenko University in 2005. I have graduated in 2011 with the *cum laude* diploma. My Master thesis was titled “Dark Matter production in the framework of the ν MSM model”. After the graduation I started my PhD studies at the Lorentz Institute for Theoretical Physics in Leiden, under the supervision of dr. Alexey Boyarsky.

During my PhD studies I was a teaching assistant for the course “Particle physics and the early Universe”. I have visited a number of schools and conferences in the Netherlands, Italy, France, and the United Kingdom, where my work was presented.

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