

# ANN BOYCHENKO

Ph.D. student, Research Engineer

## CONTACT DETAILS

+380 (66) 087 8006  
ann.boychenko199@gmail.com

---

## EDUCATION

- 2018 Bachelor in “Applied physics” at V. N. Karazin Kharkiv National University,  
Thesis: “Structure of the ionoluminescence spectra induced by hydrogen ions for silica”  
Advisor: Ph.D S. Kononenko
- 2020 Master in “Applied physics and nanomaterials” at V. N. Karazin Kharkiv National University,  
Thesis: “Influence of heavy ion implantation on the luminescence spectra”  
Advisor: Ph.D S. Kononenko
- 2020 <sub>present</sub> Ph.D. student at B. Verkin Institute for Low Temperature Physics and Engineering

## PUBLICATIONS

- 2018 A. Boychenko, I. Mysiura, O. Kalantaryan et al., The structure of ionoluminescence spectra for silica excited by hydrogen ions, *Journal of Physical Studies* 23(1)  
<https://doi.org/10.30970/jps.23.1701>
- 2020 A. Boychenko, S. Kononenko, F. Komarov, et al., Influence of the order of ion implantation on luminescence spectrum of ZnSe nanocrystals, submitted to *Journal of Nano- and Electronic Physics*

## SKILLS

Advanced: OriginPro, SRIM(TRIM) - simulation, Digitizing Software (DigitizeIt, GetData Graph Digitizer)  
Intermediate: Wolfram Mathematica, LaTeX  
Basic: COMSOL Multiphysics, Python

Professional experience: Mathematical Statistics, Spectra Fitting, Ionizing radiation and Matter Interaction, Methods of Mathematical Physics, Plasma Physics

**LANGUAGES** native: Ukrainian, Russian; English (intermediate)

## SCHOOLS

- 2017 French-CERN-Ukrainian workshop on Medical Physics and Imaging, V. N. Karazin Kharkiv National University, Kharkiv, Ukraine

Winter School of Astrophysics, School of Physics and Technology, the Research Institute of Astronomy, Kharkiv, Ukraine

Introduction to quantum technologies, Kyiv Academic University with Bogolyubov Institute for Theoretical Physics

- 2019 French-CERN-Ukrainian School of High Energy & Medical Physics, V. N. Karazin Kharkiv National University, Kharkiv, Ukraine

- 2020 KAU Data Science School, Kyiv Academic University

## CONFERENCE TALKS

- 2018            International Conference of Students and Young Researchers in  
Theoretical and Experimental Physics “HEUREKA-2018”, Lviv, Ukraine
- Relevant problems of modern physics. Scientific conference devoted to  
the 110th anniversary of the birth of V. E. Ivanov, Kharkiv, Ukraine
- 2019            International Conference of Students and Young Researchers in  
Theoretical and Experimental Physics “HEUREKA-2019”, Lviv, Ukraine
- Conference of students and young researchers "Relevant problems of  
modern physics", Kharkiv, Ukraine
- 2020            Conference on high energy and nuclear physics, Kharkiv, Ukraine