Immanuel Kant Baltic Federal University
X-ray Optics and Material Science Laboratory
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# CURRICULUM VITAE

| First name: | Last Name: | Date and place of birth: |
|---|---|---|
| ANNA | BUGAEVA | 23August 1998, Kaliningrad, Russia |

## Higher Education:

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|---|---|
| 2016-2020 | **Bachelor student**.<br>Immanuel Kant Baltic Federal University<br>Specialization: Information systems and technology<br>Diploma Title: “Ion and electron lithography for X-ray application” |

## Employment Experience:

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| July 2018- Present | Student,<br>X-Ray Coherent Optics Laboratory, Immanuel Kant Baltic Federal University |
| September 2018- Present | Teach additional courses in physics for schoolchildren |

## Research interests:

X-ray-optics, metrology of X-ray optics, electron and ion-beam lithography, electron and ion microscopy and spectroscopy, machine learning

## Job-related skills:

Ion- & electron-beam lithography

Dual beam systems (FIB-SEM):

- Zeiss Crossbeam 540 (RaithMutlibeam, GIS &Kleindiek MM3A options)

JEOL JSM-6390LV Scanning Electron Microscope:

- Energy Dispersive X-ray analyzer (EDX) X-Act (Inca, Aztec software)

## Participation in conferences and schools:

- Poster presentation at the International school “XFEL: science and instrumentation” (Poland, Gdansk, 10-12 October 2018)

- School-seminar "Sources of the 4th generation: optics and applications" (Russia, Kaliningrad, 13-15December 2018)

## Grands, scholarships & fellowships

- Participate in the grant: Development of a fundamentally new technology for controlling X-ray parameters with a nanoscaleresolution using nanostructured materials of II period elements
- Participate in the grant: Cognitive hybrid intellectual systems of man-machine, operational and technological management and decision support in complex dynamic systems
- Participate in the grant: Hybrid intelligent multi-agent systems of heterogeneous thinking and collective decision design in problem situations of dynamic environments
- September 2018: Won a "5-100" scholarships for a "Best student scientific project".

## Additionally

- Teach additional courses in physics for schoolchildren
- I have a creative mindset, because studied at art school
- All sections of physics passed on the "excellent"