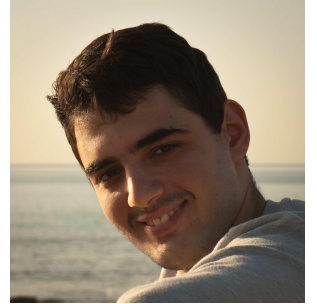


# Curriculum Vitae

## Personal Data

Shkolnikov Vladislav, MPhys



- Date of birth** ▷ 8 November, 1991
- Residence** ▷ Proezd stroiteley 1/530,  
142432 Moscow, Russia
- Nationality** ▷ Ukrainian
- Marital status** ▷ Single
  
- Tel.** ▷ +7 (915) 408-75-76
- Email** ▷ Shkolnikov.vlad@gmail.com

## Profile

- ▷ A physicist with experience in fabrication and measurement of superconducting devices

## Affiliations

- ▷ Russian Quantum Center (RQC)
- ▷ Institute of Solid State Physics of Russian Academy of Sciences (ISSP RAS)

## Education

### Master of science in Solid State Physics

09.2012– 06.2014

- ▶ Master studies at Moscow Institute of Physics and Technology, Department of Common and Applied Physics, Dolgoprudny, Russia. Thesis title: *“Implementation of Josephson junctions superconductor-ferromagnet-superconductor in coherent quantum circuits”*. Grade: Excellent.

### Bachelor of Science in Applied Physics and Mathematics

09.2008– 06.2012

- ▶ Bachelor studies at Moscow Institute of Physics and Technology, Department of Common and Applied Physics, Dolgoprudny, Russia. Thesis title: *“Fabrication and measurement of Josephson junctions and their incorporation into superconducting resonators”*. Grade: Excellent.

## Professional experience & achievements

### Professional activities

10.2014 to present

- ▶ Junior Researcher at Russian Quantum Center, Moscow, Russia: Fabrication of superconducting resonators and qubits, their incorporation into quantum circuits. Implementation of a ferromagnet-based Josephson junction in the flux qubit to shift its degeneracy point.

09.2011 to present

- ▶ Junior Researcher in Institute of Solid State Physics, Russian Academy of Science, Chernogolovka, Russia: Fabrication and testing of Josephson junctions with ferromagnetic barrier.

07.2013– 09.2014

- ▶ Tutor in MBA Startegy Company, Moscow: Preparatory courses for GMAT exam, Integrated Reasoning and Quantitative sections.

### Professional achievements

05.2015

- ▶ A first functional superconducting qubit in Russian Federation (as a member of the team in Russian Quantum Center).

01.2015

- ▶ Peer-reviewed publication: "Fabrication and measurements of hybrid Nb/Al Josephson junctions and flux qubits with  $\pi$ -shifters", <http://iopscience.iop.org/0953-2048/28/2/025009/>

2008

- ▶ Presidential Award in 2008 for the outstanding performance in Physics and Mathematics among High School Students

2005-2008

- ▶ Awardee in Ukrainian National Olympiads on Physics among High School Students

## Presentations/Talks

---

04.2015

- ▷ Presentation at workshop "Quantum Matter and Quantum Devices", Delft, Netherlands

## Skills

---

### Computer skills

- ▷ Mathematica
- ▷ C, C++
- ▷ Python
- ▷ AutoCad
- ▷ Origin

### Technological skills

- ▷ Photo- and Electron beam lithography (Photolithographer MJB4, Electron beam lithographer Crestec CABL-9000C )
- ▷ Thin film processing of superconducting circuits (Plassys MEB550S Electron Beam Evaporator, Magnetron Sputtering, Reactive Ion Etching)
- ▷ Scanning electron microscopy (JEOL JSM-7001F)
- ▷ Design of planar structures

### Experimental skills

- ▷ Dilution/He-3 refrigerator operation(BlueFors LD-250, Oxford Instruments HelioxVL)
- ▷ Microwave experimental techniques
- ▷ Low temperature experiment

## Language proficiency

---

- ▷ English(fluent)
- ▷ Russian(native speaker)
- ▷ German(A2, according to The Common European Framework of Reference for Languages )
- ▷ Ukrainian(fluent)

## Hobbies

---

- ▷ Reading
- ▷ Chess
- ▷ Akustic gitar

## List of Referees

---

- Prof. Valery Ryazanov** ▷ Head of Laboratory of Superconductivity, Institute of Solid State Physics, Russian Academy of Sciences.  
email: [Valery.ryazanov@gmail.com](mailto:Valery.ryazanov@gmail.com)  
Phone: +7(496)522-25-74  
Fax: +7(496)524-44-21
- Dr. Dmitriy Shutin** ▷ Group Leader "Swarm Exploration", Institute of Communications and Navigation, German Aerospace Center (DLR).  
email: [Dmitriy.shutin@dlr.de](mailto:Dmitriy.shutin@dlr.de)  
Phone: +49(8153)282873  
Fax: +49(8153) 281871