

CURRICULUM VITAE

Nikita Rybin

PERSONAL DATA

Date of birth: 14. 12. 95

Citizenship: The Republic of Kazakhstan.

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WORK EXPERIENCE

06/16 – 06/17

Novosibirsk Academgorodok Technopark, Uniscan Research Company. Experimental Physicist (developing a contactless method of the steel cable defects control). Supervisor – Talgat S. Bakirov, PhD.

10/14 – 07/17

Rzhanov Institute of Semiconductor Physics SB RAS, Laboratory of Nanodiagnostics and Nanolithography. Assistant (Surface Science investigation using Reflection Electron and Atomic Forced Microscopies). Director – Alexander V. Latyshev, Russian Academy of Science Academician, Professor.

Co-Supervisors – Dmitry I. Rogilo, PhD. Ekaterina E. Rodyakina, PhD.

10/14 – 07/17

09/17 –

Skolkovo Institute of Science and Technology. Student (Computationally guided discovery of thermoelectric materials). Director – Alexander V. Latyshev, Russian Academy of Science Academician, Professor. Supervisors – Dr. Artem R. Oganov.

EDUCATION

09/17 –

Skolkovo Institute of Science and Technology, Department of Materials Science, Computational Materials Discovery laboratory.

09/13 – 06/17

Novosibirsk State University, Department of Physics, BD in Semiconductor Physics.

Diploma title "*The Distribution of Adatom Concentration on an Atomically-Clean Si(111) Terraces*".

09/10 – 09/13

Nazarbayev Intellectual School in Taldykorgan, Kazakhstan.

(Grade absolute maximum on the Undergraduate School National Subject Exams).

RECENT RESEARCH WORK

Now I am working with the modern theory of materials science based on the quantum theory of solids and powerful computational methods. The area of my interest is the computationally guided discovery of materials from the first principles. My recent project connects with the calculating of transport properties of thermoelectric materials.

AWARDS & ACHIEVEMENTS

2016 – Winner of the Schlumberger Students Scholarship.

2015 – Diploma for winning the 3rd place in the International Scientific Students Conference “Student and Scientific-Technical Progress”, Quantum Physics, Solid-state Physics section.

2013 – Diploma for passing school graduation exams with maximum score.

2013 – Diploma for winning the 2nd place in the Region Physics Olympiad.

PUBLICATIONS

1. D.I. Rogilo, N.E. Rubin, A.V. Latyshev. Nucleation of Two-Dimensional Si Islands Near a Monatomic Step on an Atomically Clean Si(111)-(7×7) Surface. Optoelectronics, Instrumental and Data Processing. 2016. Vol. 52. N3. PP 86-92.
2. D.I. Rogilo, N.E. Rubin, L.I. Fedina, and A.V. Latyshev. Adatom Concentration Distribution on an Extrawide Si(111) Terrace during Sublimation. Optoelectronics, Instrumental and Data Processing. 2016. Vol. 52. N5. PP 201-507.

CONFERENCES

1. The 55rd International Students Scientific Conference “Students and the Progress in Science and Technology”. Quantum Physics Section. Novosibirsk. 2017. Diploma for the second place.
2. The 53rd International Students Scientific Conference “Students and the Progress in Science and Technology”. Quantum Physics Section. Novosibirsk. 2015. Diploma for the third place.
3. The 15th Russian Scientific Students Conference on Solid State Body Physics. Tomsk. 2016.
4. The 10th Conference and the School of Young Scientists and Experts in Topical Problems of Silicon Physics, Material Science, Technology and Diagnostics, Silicon-Based Nanometer Structures and Devices. Russia. Novosibirsk. 2016.
5. The 18th Russian Youth Conference on Physics of Semiconductors and Nanostructures, Opto- and Nanoelectronics. Russia. St. Petersburg. 2016.

SCHOOLS & SEMINARS

2017 – Invited Student in Physics Winter School of the Higher School of Economics.

2013 – A Member of the Kazakhstan team for Christmas Lectures (Royal Institution of the UK).

SOFTWARE PACKAGES

Ab initio quantum chemistry calculations: VASP, Quantum ESPRESSO, Gaussian. Post-processing tools for transport properties calculation: Phonopy, Phono3py, BoltzTraP, ShengBTE. Programming (C, C++, Python).

COMPUTER SKILLS

Linux (Ubuntu), Origin Lab, Adobe Photoshop, Corel Draw.

SPEAKING LANGUAGES

Russian – mother tongue, English – fluent, Chinese – start to study.

HOBBIES

Natural sciences, History, Judo, Swimming, Guitar Music.