Darya Stepanenko

Curriculum vitae

SCIENTIFIC EXPERIENCE

May 2018 - now

Okinawa Institute of science and technology, Japan Biological Complexity Unit

The project aims to model binding process between the transcription factors and DNA due to far-range interactions between transcription factor and base composition around binding DNA.

JANUARY 2018 - MAY 2018

Okinawa Institute of science and technology, Japan *Theory of quantum matter Unit*

The project targeted to show that protein folding is not an equilibrium process through a simplified model by using numerical methods such as Monte Carlo simulations. web link to GitHub

SEPTEMBER 2017 - DECEMBER 2017

Okinawa Institute of science and technology, Japan Bioinspired Soft Matter Unit

The project involved the studying of the mechanobiology of cancer cells responding to membrane-targeted molecular self-assembly. Particle-tracking microrheology is used as a technique. web link to GitHub

2016 - 2017

Shumakov Research Center of Transplantology and Artificial Organs, Moscow, Russia

Laboratory of Tissue Engineering

The project aimed to modify artificial extracellular matrix for tissue engineering purposes.

SPRING 2016

Bogomoletz Institute of Physiology, Ukraine School Biophysical Methods in Neuroscience

SUMMER 2015

White Sea, Russia Field work Biological School

PUBLICATIONS

 Influence of the type and the concentration of the plastificator on the surface topology of a biodegradable polymer. Russian Journal of Transplantology and Artificial Organs. 2017;19(s):190 (In Russian) web link to GitHub 🔼 Okinawa, Japan

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EDUCATION

2013 - 2017 Applied Physics and Mathe-

matics

BACHELOR OF SCIENCE

Moscow Institute of Physics and

Technology

2017 - NOW PhD in Science

Okinawa Institute of science and

technology

WORK EXPERIENCE

SEPTEMBER 2016 - MAY 2017

Educational company Uchi.ru, Russia

Developer of online mathematics courses for students

SEPTEMBER 2015 - MAY 2017

Moscow Institute of Physics and Technology Scientific journalist

Write popular science articles and press releases.

POPULAR SCIENCE PUBLICATIONS

- How do bionic prostheses work. Popular Mechanics. 2016; 2 (In Russian) web link
- How does the human body grow old? Gazeta.ru. 2016; May (In Russian) web link
- Simple things about the complex: will the machines feel? Theory and Practice. 2016; May (In Russian) web link

COMMUNICATION SKILLS

RUSSIAN mother tongue

ENGLISH IELTS 7.0

SOFTWARE SKILLS

GOOD LEVEL Python, LATEX

INTERMEDIATE R, experience in high

performance computing

cluster