

# Maksim S. Rakitin

## *Honors, awards and certificates*

### About

Name: Maksim S. Rakitin

Summary: I am a computational scientist at NSLS-II, BNL. I help beamline staff and users run scientific experiments and perform data analysis. I write code in Python to integrate hardware (motors, cameras, detectors, etc.) and 3rd-party software systems with the Bluesky data acquisition framework. I am developing the Sirepo-Bluesky library that integrates Bluesky and the Sirepo browser-based interface to scientific modeling codes to enable access to “virtual” beamlines. I am a proponent of well-tested, modular, reusable, sustainable, and easily accessible code. I am fluent with modern CI systems (GitHub Actions, MS Azure Pipelines, etc.) I use Docker/Podman (including the creation of images), Linux (RHEL8, CentOS, Ubuntu, etc.), vagrant/VirtualBox on a daily basis. I am maintaining over 100 conda-forge feedstocks (Python, Python with C-extensions, C/C++, Fortran). I lead the continuous integration efforts to deploy and test the conda environments with the Bluesky software stack. I am enthusiastic about new technologies and AI/ML projects. I am a PI on an AI/ML LDRD project and a PI for two SBIR subcontracts with Radiasoft LLC (total funds of \$1M+).

Links: [BNL](#) • [SBU](#) • [SUSU](#)

[@mrakitin](#) • [@mrakitin](#) • [Google Scholar](#) • [ResearchGate](#) • [ORCID](#)

### Honors, awards and certificates

- 2020 Spotlight Award in recognition of exceptional job performance (Brookhaven National Lab, Upton, NY)
- 2018 Spotlight Award in recognition of exceptional job performance (Brookhaven National Lab, Upton, NY)
- 2012 Certificate of summer school on computer simulations and massive calculations in modern physics with invited lectors from the US (Chelyabinsk, Russia)
- 2010 Certificate of summer school on computational material sciences (San-Sebastian, Spain)
- 2010 Scholarship of the University President (Chelyabinsk, Russia)
- 2009 Certificate of courses on high-performance computational systems (Nizhny Novgorod, Russia)
- 2009–2010 State contract (grant) on Federal Programme “Scientific and pedagogical staff for an innovative Russia” (Moscow, Russia)
- 2007 Diploma of the 13<sup>th</sup> All-Russian Physics Students Conference for the talk “Computer simulation of hydrogen atom in bcc iron” (Rostov-on-Don, Russia)
- 2006 Summa cum laude in Bachelor’s studies (Chelyabinsk, Russia)

2006 Scholarship of the President of Russia