Max Rakitin

Honors, awards and certificates

About

Name: Max Rakitin (a.k.a. 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+).

News: "Computer, Is My Experiment Finished?" (September 16, 2022)
https://www.bnl.gov/newsroom/news.php?a=220832

"Seeing the Forest Through the Trees: Brookhaven Lab Scientists Develop New Computational Approach to Reduce Noise in X-ray Data." (April 18, 2022)
https://www.bnl.gov/newsroom/news.php?a=219533

Links: ○ BNL • SBU • SUSU
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Honors, awards and certificates

2022.11 Engineering Award for distinguished contributions to Brookhaven National Laboratory's engineering objectives (a member of a team) — one of Brookhaven Lab's pinnacle awards (Brookhaven National Lab, Upton, NY)

2021.02 Certificate of Recognition for scientific contribution to the U.S. Department of Energy National Virtual Biotechnology Laboratory Project "Molecular Design and Analysis to Inform Therapeutics Related to COVID-19" (part of the DOE COVID-19 Pandemic Response in 2020)

2021.01	Certificate of Completion of the course "Scientific & Numeric Computing with Python" (James Powell, DUTC)
2021.01	Certificate of Completion of the course "Expert Level Python" (James Powell, DUTC)
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 13th 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