

Max Rakitin

Computer skills

About

Name: Max Rakitin (a.k.a. Maksim S. Rakitin)

Summary: I am a group leader of the Data Acquisition and Detectors group of the Data Science and Systems Integration Division of NSLS-II, BNL.

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>

“EPICS Collaboration Meeting (workshop organizer)” (September 16–20, 2024)
<https://conference.sns.gov/event/448/timetable/?view=standard>

Links: [o BNL](#) • [mrakitin.github.io](#) • [SBU](#) • [SUSU](#)
[o @mrakitin](#) • [in @mrakitin](#) • [Google Scholar](#) • [ResearchGate](#)
[o ORCID: 0000-0003-3685-852X](#)

Computer skills

Data analysis, visualization	Python, NumPy, SciPy, Matplotlib, Bokeh, D3.js, Matlab/Octave, OriginPro, gnuplot, VESTA, XCrysDen, STM4, P4VASP, Molden, VMD, RasTop, <i>etc.</i>
Programming	Python (including PyQT, NumPy, SciPy, Matplotlib, PIL), C++, Fortran, Matlab/Octave, JavaScript, jQuery, AngularJS, some React, WebGL, PHP, HTML5, bash, csh/tcsh, make, Perl, Autolt3, REXX, SQL, JCL
Databases	SQLite3, PostgreSQL, MySQL, DB2 (IBM), MongoDB
Parallelization	MPI, OpenMP, Dask
IDE/editors	VSCode, PyCharm, Eclipse, vim, some emacs
Writing	L ^A T _E X, BibT _E X, TeXlipse/Eclipse, plasTeX, JabRef, MS Word
OS	Linux (CentOS, SuSE, RedHat, Fedora, Ubuntu, Debian, Raspbian, <i>etc.</i>), Mac OS X, AIX, Solaris, HP-UX, Windows, DOS, z/OS
Virtualization	Docker, Vagrant, VirtualBox, VMware
VCS	GitHub, Git, SVN, CVS, Bazaar, Trac
Atomistic simulation	VASP, WIEN2k, Quantum Espresso, CASTEP, SIESTA, CP2K, FHI-aims, QuantumWise ATK, Tinker, GULP, LAMMPS, DMACRYS, Phonopy, TB-LMTO-ASA