

# 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>

Links: ○ BNL • SBU • SUSU  
 ○  @mrakitin •  @mrakitin •  Google Scholar •  ResearchGate  
 ○  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, etc.

**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, Autot3, REXX, SQL, JCL

**Parallelization** MPI, OpenMP, Dask

**IDE/editors** VSCode, PyCharm, Eclipse, vim, some emacs

**Writing** L<sup>A</sup>T<sub>E</sub>X, BibT<sub>E</sub>X, TeXlipse/Eclipse, plasTeX, JabRef, MS Word

**OS** Linux (CentOS, SuSE, RedHat, Fedora, Ubuntu, Debian, Raspbian, etc.), 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