

# Maksim S. Rakitin

## Computer skills

### Personal details

Full name: Maksim S. Rakitin

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

[ORCID](#) • [in](#) • [grad](#) • [ResearchGate](#)

### Computer skills

**Atomistic simulation** VASP, WIEN2k, Quantum Espresso, CASTEP, SIESTA, CP2K, FHI-aims, QuantumWise  
ATK, Tinker, GULP, LAMMPS, DMACRYS, Phonopy, TB-LMTO-ASA

**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 TkInter, PyQt, NumPy, SciPy, Matplotlib, PIL), C++, Fortran, Matlab,  
Octave, JavaScript, jQuery, AngularJS, WebGL, PHP, HTML5, bash, csh/tcsh, make,  
Perl, Autot3, REXX, SQL, JCL

**Parallelization** MPI, OpenMP

**IDE** PyCharm, Visual Studio, Eclipse, Aptana Studio, emacs, vim

**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

**Hobby projects** [Raspberry Pi-based web server](#) — <https://mrakitin.xyz> (production HTTPS web server  
configuration — Nginx+uWSGI+Flask with Jinja2 templates)

[Weather in console](#) — <https://github.com/mrakitin/weather>

NSLS-II – Brookhaven National Laboratory – Upton, NY 11973

☎ (631) 344-8299 • 📞 (631) 403-0741 • ✉ [mrakitin@bnl.gov](mailto:mrakitin@bnl.gov)

🌐 [mrakitin.xyz](https://mrakitin.xyz) • 🐙 [mrakitin](#) • [in](#) [mrakitin](#) • 🐦 [mrakiti](#)