

# Maksim S. Rakitin

*Computer skills*

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## Personal details

Full name: Maksim S. Rakitin

Links: [BNL](#) | [LinkedIn](#) | [Google Scholar](#) | [ResearchGate](#) | [GitHub](#) | [SBU](#) | [IACS](#) | [SUSU](#)

## 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>