

# Maksim S. Rakitin

## References

### About

Name: Maksim S. Rakitin

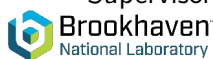
Summary: I am a computational scientist at NSLS-II, BNL. I help beamline staff and users run scientific experiments and perform data analysis. I write code in Python to integrate hardware (motors, cameras, detectors, etc.) and 3rd-party software systems with the Bluesky data acquisition framework. I 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>

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[@mrakitin](#) • [@mrakitin](#) • [Google Scholar](#) • [ResearchGate](#)  
[ORCID: 0000-0003-3685-852X](#)

### References



Supervisor

**Stuart Campbell**, Ph.D., Chief Data Scientist and Deputy Program Manager for DSSI  
NSLS-II/Photon Science Division, Brookhaven National Laboratory, Upton, NY 11973  
[scampbell@bnl.gov](mailto:scampbell@bnl.gov) ☎ +1 (631) 344-5578

*Additional references available upon request.*