



The Center for Research Computing presents:



Reproducibility in Computational Science: A Computable Scholarly Record

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105 Pasquerilla Center



Featuring

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Imagine querying the scholarly record for all image compression algorithms that have been applied to the famous "Barbara" picture in the last five years (with citations), or all articles published using the well-known Acute Lymphoblastic Leukemia dataset from Golub et al. (1999). Queries such as these are natural questions for researchers, and are as yet effectively impossible. The scholarly community is taking steps to link data, code, workflows and other artifacts that support and enable the verification of the claims made in the scholarly record. In this talk I will frame a motivation for this effort, resolving reproducibility in computational science, and discuss recent steps to add this layer to the scholarly record including a recently funded NSF project, "Merging Science and Cyberinfrastructure Pathways: The Whole Tale" (joint with Jarek Nabrzyski and others).

Victoria is an associate professor in the School of Information Sciences at the University of Illinois at Urbana-Champaign, with affiliate appointments in the School of Law, the Department of Computer Science, the Department of Statistics, the Coordinated Science Laboratory, and the National Center for SuperComputing Applications. She completed both her PhD in statistics and her law degree at Stanford University.

Victoria is an affiliate scholar with the Center for Internet and Society at Stanford Law School. She is also a faculty affiliate of the Meta-Research Innovation Center at Stanford (METRICS).