

Stanford



Vanessa Sochat

Research Software Engineer, Research Computing Op Budget

Bio

HONORS AND AWARDS

- Stanford Graduate Student Fellowship, Albion Walter Hewlett Fellow, Stanford University
- National Science Foundation (NSF) Graduate Research Fellow, National Science Foundation
- Microsoft Research Graduate Women's Scholar, Microsoft (2012)

EDUCATION AND CERTIFICATIONS

- BA, Duke University , Psychology & Neuroscience (2009)
- PhD, Stanford University , Biomedical Informatics (2016)

Publications

PUBLICATIONS

- **The Scientific Filesystem.** *GigaScience*
Sochat, V.
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- **Enhancing reproducibility in scientific computing: Metrics and registry for Singularity containers** *PLOS ONE*
Sochat, V. V., Prybol, C. J., Kurtzer, G. M.
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- **Predicting Prostate Cancer Recurrence After Radical Prostatectomy** *PROSTATE*
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- **Singularity: Scientific containers for mobility of compute.** *PloS one*
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- **Sharing brain mapping statistical results with the neuroimaging data model** *SCIENTIFIC DATA*
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- **Predicting Prostate Cancer Recurrence After Radical Prostatectomy.** *Prostate*
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2016
- **The Experiment Factory: Standardizing Behavioral Experiments** *FRONTIERS IN PSYCHOLOGY*
Sochat, V. V., Eisenberg, I. W., Enkavi, A. Z., Li, J., Bissett, P. G., Poldrack, R. A.

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- **NeuroVault.org: A repository for sharing unthresholded statistical maps, parcellations, and atlases of the human brain.** *NeuroImage*
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- **The brain imaging data structure, a format for organizing and describing outputs of neuroimaging experiments.** *Scientific data*
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- **Long-term neural and physiological phenotyping of a single human** *NATURE COMMUNICATIONS*
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2015; 6
- **Effects of thresholding on correlation-based image similarity metrics** *FRONTIERS IN NEUROSCIENCE*
Sochat, V. V., Gorgolewski, K. J., Koyejo, O., Durnez, J., Poldrack, R. A.
2015; 9
- **Searching for a minimal set of behaviors for autism detection through feature selection-based machine learning** *TRANSLATIONAL PSYCHIATRY*
Kosmicki, J. A., Sochat, V., Duda, M., Wall, D. P.
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- **Searching for a minimal set of behaviors for autism detection through feature selection-based machine learning.** *Translational psychiatry*
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- **Translational Meta-analytical Methods to Localize the Regulatory Patterns of Neurological Disorders in the Human Brain.** *AMIA ... Annual Symposium proceedings / AMIA Symposium. AMIA Symposium*
Sochat, V., David, M., Wall, D. P.
2015; 2015: 2073-2082
- **AuthorSynth: a collaboration network and behaviorally-based visualization tool of activation reports from the neuroscience literature.** *Frontiers in neuroinformatics*
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- **NeuroVault.org: a web-based repository for collecting and sharing unthresholded statistical maps of the human brain.** *Frontiers in neuroinformatics*
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- **A Robust Classifier to Distinguish Noise from fMRI Independent Components** *PLOS ONE*
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