

Biographical Sketch

K. Jarrod Millman

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Professional Preparation

Cornell University

Mathematics and Computer Science, B.A. 1998

Appointments

- Director of Computing, Neuroscience Institute, UC Berkeley, 2004–present.
- System Administrator, Brain Imaging Center, UC Berkeley, 2000–2004.
- System Administrator, Center for Neuroscience, UC Davis, 1998–2000.

Most Relevant Publications

- *The State of SciPy*, with T. Vaught, Proceedings of the 7th Python in Science conference, G. Varoquaux, T. Vaught, K. J. Millman, eds., pp. 5-10, August, 2008.
- *Analysis of Functional Magnetic Resonance Imaging in Python*, with M. Brett, Computing in Science and Engineering, vol. 9, no. 3, pp. 52-55, May/June, 2007.

Other Publications

- *Data Sharing for Computational Neuroscience*, with J. L. Teeters, K. D. Harris, B. A. Olshausen, and F. T. Sommer, *Neuroinformatics*, vol. 6, no. 1, pp. 47-55, March, 2008.
- *Data and Analysis Management for Functional Magnetic Resonance Imaging Studies*, with M. D'Esposito, Proceedings of the 2nd International Advanced Database Conference, M. Amin et al., eds., US Education Service, June 2006, pp. 2428.
- *Learning sparse overcomplete image representations*, with B. A. Olshausen, Proceedings of SPIE Vol. 4119, p. 445-452, Wavelet Applications in Signal and Image Processing VIII, Akram Aldroubi, Andrew F. Laine, Michael A. Unser, eds., December 2000.
- *Learning sparse codes with a mixture-of-Gaussians prior*, with B. A. Olshausen, Advances in Neural Information Processing Systems, vol. 12, S.A. Solla, T.K. Leen, K.R. Muller, eds., MIT Press, 2000, pp. 841-847.

Synergistic Activities

- **Research Tools:** Developer and member of the steering committee for NumPy and SciPy, the fundamental libraries for numerical computing in Python. NumPy provides an n -dimensional array object and basic tools for linear algebra and Fourier analysis, while SciPy provides tools for integration, interpolation, statistics, optimization, clustering, image and signal processing, etc. Founder and developer of the Neuroimaging in Python project, which builds on NumPy and SciPy to provide analysis tools for structural, functional, and diffusion MRI.
- **Outside Service:** Organized and chaired the last several US SciPy conferences as well as the first and second SciPy conferences in India. Started and edited the peer-reviewed conference proceedings. Served as a Google Summer of Code mentor for several NumPy and SciPy projects.

Collaborators and Other Affiliations

- **Collaborators and Co-Editors:** M. Aivazis (Caltech), M. Brett (UC Berkeley), C. Burns (UC Berkeley), O. Certik (University of Nevada, Reno), D. Clark (UC Berkeley), M. D'Esposito (UC Berkeley), S. Ghosh (MIT), C. Gorgolewski (University of Edinburgh), Y. Halchenko (Dartmouth College), K. Harris (Rutgers University), C. Madison (UC Berkeley), B. Olshausen (UC Berkeley), F. Perez (UC Berkeley), A. Roche (NeuroSping/CEA Saclay), F. Sommer (UC Berkeley), J. Taylor (Stanford University), J. Tettters (UC Berkeley), B. Thirion (NeuroSping/CEA Saclay), R. Tungaraza (University of Washington), S. van der Walt (University of Stellenbosch), G. Varoquaux (NeuroSping/CEA Saclay), T. Vaught (Enthought)