

Dillon Niederhut PhD

Research Scientist / Data Engineer

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Education

- 2016 **PhD**, *University of California, Berkeley, Anthropology.*
Performance Theory Approaches to Computational Text Analysis
- 2009 **BS**, *The College of William and Mary, Williamsburg, Neuroscience.*
Summa Cum Laude and additional Honors in Research

Experience

- 2016–2018 **Python Developer / Technical Instructor**, *Enthought*, Austin.
- 2015–2016 **Lead Python Developer / Statistical Consultant**, *D-Lab*, Berkeley.
- 2015 **Lecturer**, *University of California*, Berkeley.
- 2014 **Data Science Fellow**, *CDIPS*, Berkeley.
- 2011–2014 **NSF Graduate Research Fellow**, *University of California*, Berkeley.
- 2010–2011 **Statistical Consultant**, *Wolf Brown, LLC*, San Francisco.

Funding

- 2015 **GPU applications in post-mortem neuroimaging**, *Hardware Donation Program*, NVIDIA.
- 2014–2015 **MRI microscopy of human motor neurons**, *Research Grant*, Leakey Foundation.
- 2014–2016 **MRI microscopy of human motor neurons**, *Research Grant*, National High Magnetic Field Lab.
- 2011–2014 **Neurological correlates of language ability**, *Graduate Research Fellowship*, National Science Foundation.
#DGE1106400

Products

wirepedia	Passive information extraction	wirepedia.org
george-lucas	Watch "A New Hope" in your terminal	pypi.org/project/george-lucas
tram	Python objects with transactional memory	github.com/deniederhut/tram
diff2parse	DWI-based cortical parcellation	github.com/deniederhut/diff2parse
PyTeX	LaTeX to json transpiler	github.com/deniederhut/PyTeX
Redicorpus	Real-time corpus building and querying	github.com/deniederhut/redicorpus
Primate Energetics	Daily energy use of 26 genera of primates	zenodo.org/deposit/68633

Activities

- 2017-2018 **Proceedings Co-chair**, *Python in Science Conferences (SciPy)*.
2017-2018 **Contributor**, *Pandas*.
2017-2018 **Reviewer**, *The Journal of Open Source Software (JOSS)*.
2016-2018 **Reviewer**, *rOpenSci*.
2014-2018 **Reviewer**, *Evolution of Language International Conferences (EvoLang)*.

Proficiencies

- Python Airflow, Cython, Flask, NumPy, Pandas, scikit-image, scikit-learn
R Amelia, Knitr, MASS, Robust, Tidyverse
DB/Queues MongoDB, Neo4j, PostgreSQL, RabbitMQ, SQLite
FSL GLM, FDT, TBSS

Articles

- D. Niederhut. Safe handling instructions for missing data. In F. Akici, D. Lippa, D. Niederhut, and M. Pacer, editors, *Proceedings of the 16th Python in Science Conference*, in press.
- D. Niederhut. Semantic bleaching not observed in synchronic test. In C. Cuskley, M. Flaherty, H. Little, L. McCrohon, A. Ravignani, and T. Verhoef, editors, *The Evolution of Language: Proceedings of the 12th International Conference*. NCU Press, 2018. <https://doi.org/10.12775/3991-1.082>.
- D. Niederhut. Software transactional memory in pure python. In K. Huff, D. Lippa, D. Niederhut, and M. Pacer, editors, *Proceedings of the 15th Python in Science Conference*, pages 9–11, 2017. <https://doi.org/10.25080/shinma-7f4c6e7-002>.
- D. Niederhut. Quantifying the semantic value of words. In S. Roberts, C. Clusky, L. McCrohon, L. Barcelo-Coblijn, O. Feher, and T. Verhoef, editors, *The Evolution of Language: Proceedings of the 11th international conference*. World Scientific, Hackensack, 2016.
- D. Niederhut. The phonatory culture hypothesis. In E. Cartmill, S. Roberts, H. Lyn, and H. Cornish, editors, *The Evolution of Language: Proceedings of the 10th international conference*. World Scientific, Hackensack, 2014.
- D. Niederhut. Beyond “neuroevidence”. In L. McCrohon, T. Verhoef, B. Thompson, and H. Yamauchi, editors, *The Past, Present, and Future of Evolution of Language Research*. World Scientific, Hackensack, 2014.
- D. Niederhut. Gesture and the origin of language. In T. Scott-Phillips, M. Tamariz, E. Cartmill, and J. Hurford, editors, *The Evolution of Language: Proceedings of the 9th international conference*. World Scientific, Hackensack, 2012.