Dav J. W. Clark, Ph.D.

Data and Learning Scientist

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# Summary

Team player who brings a pragmatic mix of tools, training, and community to bear on big challenges. Extensive and varied experience with technology including computational linguistics, statistics, machine learning, static and interactive visualization, physical computing. Demonstrated leadership in coalition building, teaching, and project incubation across academic, enterprise, consulting and start-up settings. Fast learner looking to join a great team.

# Experience

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| **Research Scientist**, Kennedy Krieger Institute, Baltimore, MD | 2016-2017 |
| ***UC Berkeley,* Berkeley, CA** |  |
| **Fellow**, Berkeley Institute for Data Science (BIDS) | 2014-2016 |
| **Data Scientist**, D-Lab | 2013-2016 |
| **Instructor**, Machine Learning (Masters in Data Science); Hacking Measurement | 2014, 2015 |
| **Chief Scientist**, Oroeco / Startup Chile, San Francisco, CA / Santiago, Chile | 2012-2015 |
| **Partner, KeepOpen Web Design, Euless, TX (remote)** | 2004-2013 |
| **Principal Scientist, Entrieva (now LucidMedia), Reston, VA** | 2006-2007 |

# Education

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| **Ph.D., Psychology**, UC Berkeley  *Thesis*: Climate change and conceptual change RCME Fellow (Full support / stipend for 2 years) | 2007-2013 |
| **MS, Cognitive Neuroscience,** MIT  *Thesis:* Neurocognitive circuitry supporting neoword learning  NSF Graduate Student Fellowship  Jacob Javits Fellowship (declined) | 1999-2002 |
| **Triple Bachelor’s degree**, *U of MD, College Park*  *BA w/ honors in Linguistics, BS in Computer Science, BS w/ high honors in Mathematics*  *Thesis:* Modeling language change with markov models  *Magna Cum Laude;* Banneker/Key Scholarship (Full support / stipend for 4 years); Arts and Humanities Senior Scholar; ODK leadership honors fraternity | 1995-1999 |

# Skills

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| ***Programming* – Data Science: Python, R, Spark, SQL, MongoDB, HDF5; Visualization: SVG (D3), ggplot2, Matplotlib, Bokeh; Front End: Elm, HTML, CSS, JavaScript / React, Jekyll; Back End: Ruby on Rails, Express, Python, Tomcat** |
| ***Ops –*** Amazon EC2 & MTurk, Docker, Ansible, Packer, Vagrant, Linux admin, system building, GPU |
| ***Science –*** **Data Collection:** brain imaging, physiology, computerized testing (desktop / web / mobile), surveys / crowd-sourcing, experiment design; **Statistics:** classical, Bayesian, non-parametric, time-series, machine learning |
| ***Writing –*** technical, grants, documentation, policy / MOU |

# Other Awards

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| **Harvard Business Plan Competition, runner up, ($4000 in-kind services)** | 2003 |
| **MIT Sloan Business Plan Competition,** semi-finalist | 2003 |

# Community & Service

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| **Data and Mental Health Working Groups**, School Climate Collaborative, Baltimore, MD | 2016–2017 |
| **Software Carpentry / Data Carpentry,** Berkeley, CA | 2014-2016 |
| **Discussant,** Numerous panels on data collection, sharing and ethics | 2014-2016 |
| **Lead,** BIDS Collaborative for graduate student data science projects, Berkeley, CA | 2015 |
| **Resident,** ManyLabs (a Moore-funded science hackerspace), San Francisco, CA | 2015 |
| **Presenter,** BloombergData for Good Exchange, New York, NY | 2015 |
| **Chair,** social science panel at SciPy 2014, Austin, TX | 2014 |
| **Training Assistant,** Data Science for Social Good, Chicago, IL | 2013 |
| **President,** MIT Graduate Student Volunteer Corps, Cambridge, MA | 2001-2002 |

# Sample Open Source Projects

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| **marketflow – efficient ingest of large financial datasets** | <http://marketflow.readthedocs.io/en/latest/> |
| **rpy2 – interoperate with R from Python** | <http://rpy2.readthedocs.io/> |
| **NiPype – data processing graphs for brain imaging analysis** | <http://nipype.readthedocs.io/> |
| **Hacking Measurement – incubating grad student projects** | <http://hackingmeasurement.berkeley.edu/> |
| **MTurk Admin –** longitudinal experiments on Amazon MTurk | <https://github.com/davclark/mturk_admin> |
| **Taichi Site –** static site using Elm for video-based practice | <https://github.com/davclark/taichi-site> |
| **Hotaru –** controlling an LPD8806 LED strip using React.js | <https://github.com/davclark/hotaru-material-ui> |