

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

Research Scientist , Kennedy Krieger Institute, Baltimore, MD	2016-2017
<i>Program implementation and evaluation, partnerships, developed interactive web-based learning resource using Elm, grant and academic writing.</i>	
UC Berkeley , Berkeley, CA	
Fellow , Berkeley Institute for Data Science (BIDS)	2014-2016
<i>Lead BIDS collaborative incubator for data-intensive projects with real-world impact</i>	
Data Scientist , D-Lab	2013-2016
<i>Training and empowering data-driven social scientists, grant-writing, specified and administered “fat” compute node (ZFS, GPU), ran corporate training, management</i>	
Instructor , Machine Learning (Masters in Data Science); Hacking Measurement	2014, 2015
Chief Scientist , Oroeco / Startup Chile, San Francisco, CA / Santiago, Chile	2012-2015
<i>Analysis of user behavior, Rails development, implemented multiple testing frameworks to encourage developer usage</i>	
Partner , KeepOpen Web Design, Euless, TX (remote)	2004-2013
<i>Concierge-style web design and hosting using Silva (a Zope-based CMS)</i>	
Principal Scientist , Entrieva (now LucidMedia), Reston, VA	2006-2007
<i>Analyzed and reported on the core business algorithm that no employees understood, wrote new algorithm that was comprehensible to taxonomy team, Tomcat/Spring</i>	

Skills

Programming - Data Science: Python, R, Spark, SQL, MongoDB, HDF5; **Visualization:** ggplot2, Matplotlib, Bokeh, SVG (D3); **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

Education

Ph.D., Psychology , UC Berkeley	2007-2013
<i>Thesis</i> : Climate change and conceptual change	
Research in Cognition and Math Education (RCME) Fellow	
MS, Cognitive Neuroscience , MIT	1999-2002
<i>Thesis</i> : Neurocognitive circuitry supporting neoword learning	
BA, Linguistics; BS, Computer Science; BS, Mathematics , U of MD, College Park	1995-1999
<i>Thesis</i> : Modeling language change with markov models; <i>Magna Cum Laude</i>	

Selected Awards

UC Berkeley SPOT Award , outstanding service to D-Lab	2016
Harvard Business Plan Competition , runner up, (\$4000 in-kind services)	2003
MIT Sloan Business Plan Competition , semi-finalist	2003

Community & Service

Data and Mental Health Working Groups , School Climate Collaborative, Baltimore, MD	2016-2017
EdX Data Czar , UC Berkeley	2015-2016
Software Carpentry / Data Carpentry , SF Bay Area	2014-2016
Discussant , Numerous panels on data collection, sharing and ethics, SF Bay Area	2014-2016
Resident , ManyLabs (a Moore-funded science hackerspace), San Francisco, CA	2015
Presenter , Bloomberg Data 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

Sample Open Source Projects

marketflow - efficient ingest of large financial datasets	http://marketflow.readthedocs.io/en/latest/
rapy2 - interoperate with R from Python	http://rapy2.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