Dav J. W. Clark, Ph.D.

Data and Learning Scientist

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Summary

I have a strong track record of getting things done and executing on collaborative data-intensive projects across academic, enterprise, consulting and start-up settings. My experience includes computational linguistics, statistics, machine learning, static and interactive visualization, and physical computing. I am a fast learner looking to join a great team.

Experience

Open source projects indicated with * are linked at the end of the document.

Research Scientist, Kennedy Krieger Institute, Baltimore, MD

2016-2017

Program implementation and evaluation spanning survey, clinical, physiologic and brain-imaging data; hiring and supervision of instructional staff; partnerships; grant and academic writing; Data and Mental Health Working Groups in OSI-funded School Climate Collaborative; developed Taichi Site* for web-based video curriculum in Elm

UC Berkeley, Berkeley, CA

Fellow, Berkeley Institute for Data Science (BIDS)

2014-2016

Co-founded BIDS collaborative incubator for data-intensive projects with real-world impact; Discussant in numerous panels on data collection, sharing, and ethics; Resident at ManyLabs (a Moore-funded science hackerspace in San Francisco); contributions to rpy2 project*

Data Scientist, D-Lab 2013-2016

Training and empowering data-driven social scientists, grant-writing, specified and administered "fat" compute node (ZFS, GPU), ran corporate training, managed undergraduate staff, trained staff and organized hosting for projects and curricula on GitHub, EdX (MOOC) Data Czar, Presenter at Bloomberg Data for Good Exchange, Training Assistant at U Chicago Data Science for Social Good, big financial data including marketflow* library, developed BCE* data science VM for instructional and research needs in collaboration with Research IT and Statistics department, UC Berkeley SPOT Award for outstanding service

Instructor, Machine Learning (Masters in Data Science); Hacking Measurement Developed missing "catch-up" curriculum for scientific python, automated GitHub course workflows, organized Hacking Measurement* as an open project site

2014, 2015

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Chief Scientist, Oroeco / Startup Chile, San Francisco, CA / Santiago, Chile	2012-2015
Analysis of user behavior, Rails development, implemented multiple testing	
frameworks to encourage developer usage	
Partner, KeepOpen Web Design, Euless, TX (remote)	2004-2013
Concierge-style web design and hosting using Silva (a Zope-based CMS)	
Principal Scientist, Entrieva (now LucidMedia), Reston, VA	2006-2007
Analyzed and reported on the core business algorithm that no employees understood,	
wrote new algorithm that was comprehensible to taxonomy team, Tomcat/Spring	

Education

Ph.D., Psychology, UC Berkeley	2007-2013
Thesis: Climate change and conceptual change	
Research in Cognition and Math Education (RCME) Fellow, helped start and architect the	
NiPype project*, developed MTurk Admin* for longitudinal online experiments	
MS, Cognitive Neuroscience, MIT	1999-2002
Thesis: Neurocognitive circuitry supporting neoword learning	
Harvard Business Plan Competition runner up (\$4000 in-kind services), MIT Sloan Business	
Plan Competition semi-finalist, President of MIT Graduate Student Volunteer Corps	
BA, Linguistics; BS, Computer Science; BS, Mathematics, U of MD, College Park	1995-1999
Thesis: Modeling language change with markov models; Magna Cum Laude	
Founder of Juggling Club - extensive youth outreach and education	

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, Arduino & Raspberry Pi; Statistics: classical, Bayesian, non-parametric, time-series & spatial, machine learning

Writing - technical, grants, documentation, policy / MOU

Sample Open Source Projects

marketflow - efficient ingest of large financial datasets
rpy2 - interoperate with R from Python
NiPype - data processing graphs for brain imaging analysis
BCE - the Berkeley Common Environment, a VM for data science
Hacking Measurement - incubating grad student projects
MTurk Admin - longitudinal experiments on Amazon MTurk
Taichi Site - static site using Elm for video-based practice
Hotaru - controlling LPD8806 LED strip using React.js (hobby)

http://marketflow.readthedocs.io/en/latest/
http://rpy2.readthedocs.io/
http://nipype.readthedocs.io/
http://bce.berkeley.edu/
http://hackingmeasurement.berkeley.edu/
https://github.com/davclark/mturk_admin
https://github.com/davclark/taichi-site