Jonathan Whitmore PhD, Data Scientist

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2014Present

Data Scientist, Silicon Valley Data Science, Mountain View, CA, USA. { Consulting as a member of several small data science/data engineering teams at multiple companies. { Creatingoutputtoexplaindataanalysis, datavisualization, andstatisticalmodelingresultstomanagers. { Modeling survey data responses with ordinal logistic regression in R. { Analyzing and visualizing user behavior migration. 2014 Insight Fellow, Insight Data Science, Palo Alto, CA, USA. { Created a Data Science project to predict the auction sale price of Abstract Expressionist art. 2011–2014 Postdoctoral Research Associate, Swinburne University, Melbourne, AUS. { Cleaned noisy and inhomogeneous astronomical data taken over four years by diﬀerent observing groups. { Curated central data repository of ﬁnal products; developed an automated process to update data repository; created web interface for collaborator access to the repository. { Utilized numerous statistical techniques, including sensitivity analysis on non-linear propagation of errors, Markov-Chain Monte Carlo for model building, and hypothesis testing via information criterion. { Simulatedspectroscopicdatatoexposesystematicerrorsthatchallengelong-standingresultsonwhether the fundamental physical constants of the universe are constant. 2005–2011 Graduate Student Researcher, UCSD, San Diego, CA, USA. { Developed a novel technique to extract information from high resolution spectroscopic data that led to uncovering unknown short-range systematic errors. Programming and Development Skills Languages Python, SQL (Impala/Hive), R, L ATEX, shell scripts, CSS, HTML. Tools Jupyter Notebook, pandas, matplotlib, numpy, scikit-learn, scipy, pymc3, git, pandoc. Publishing, Speaking, and Side Projects 2016 O’Reilly author: Jupyter Notebook for Data Science Teams [screencast], editor O’Reilly Media. 2016 UC Berkeley Guest Lecturer: Master in Data Science lecture on Jupyter Notebook. 2015 Open Source Speaker: OSCON. 2014–2015 Technical reviewer of Mastering SciPy by Francisco J. Blanco-Silva, 2015. 2012–2014 DeveloperofRebalanceAssetAllocation,aPythonmodulethatrecommendsﬁnancialassetclassallocations. 2013-2014 Contributor to astropy; creator of dipole\_error, an astronomy Python module. 2013 Co-star and narrator of Hidden Universe, a 3D IMAX astronomy ﬁlm playing worldwide. 2007–2009 Graduate Physics Courses Taken: Stochastic Methods, Computational Physics. Education 2011 PhD Physics, University of California San Diego, San Diego, CA, USA. 2007 MS Physics, University of California San Diego, San Diego, CA, USA. 2005 Bachelor of Science–Magna Cum Laude, Vanderbilt University, Nashville, TN, USA. Triple major: Physics (honors); Mathematics; Philosophy.