Alexander McFarlane in 0 2

CONTACT Information	alexander.mc far lane @physics.org	, , , , , , , , , , , , , , , , , , ,	Currently working on Deep Learning projects. Available for interview for Nov. starts.	
Background	• Quant. experience: Equity & credit e	xotics		
	• M.Sc. in Theoretical Physics (graduating November)			
	• Monte Carlo for high dimensional problems			
	• Deep Machine Learning research: Stochastic applications (weather)			
	• Programming: Python, Fortran, VBA			
Professional Experience	Webranz & Fonterra, Global Dairy Intel Quant. Data Architect & Consultant (gap	9 ,	014 - Aug. 2015	
	 Lead of quantitative solutions in data acquisition for data science & modelling Researched / introduced social media sentiment analysis to Fonterra Insights (quant) team Daily user: Python (web-scraping, analysis, research) Casual user: SQL, regex, bash, PowerShell, Alteryx, Tableau, Neo4j, Bloomberg 			
	Commerzbank AG, Models & Calibratio Junior Quantitative Analyst (off-cycle inte	,	2014 - Aug. 2014	
	 Author of the Model Validation for PV Validating the structure of exotic trades Writing efficient VBA model validation ro Daily user: VBA, SPLiFE (CBK language Casual user: Bloomberg 	in equities, commodities and alternative outines to reduce workload & take on ad	re investments	
Education	The University of Edinburgh , M.Sc. Theoretical Physics, <i>Expected Merit</i> 2015 - Present <i>Dissertation</i> : Generalised Hybrid Monte Carlo - Python - supervised by model authors			
	The University of Surrey, B.Sc. Hons. Physics with Finance, 2:1 2009 - 2013 Dissertation: "Modelling Value at Risk (VaR)" - Fortran - original implementation			
PROJECTS	The University of Auckland, Stochastic Research Programmer: Deep Neural Netwo		2014	
Extra Curricula	Institute of Physics Associate Member (AM	VInstP)	2014 - Present	
	Institute of Mathematics Associate Member		2014 - Present	
	Surrey University Snowsports Snowboard C Surrey University Snowsports Social Secret	- (2012 - 2013 2010 - 2011	
Awards & Grants	 Scargill Educational Foundation The Ann Powtrell Foundation 		2015 2015	
	Reference	Available on Request		

 $Referees\ Available\ on\ Request$