Alexander McFarlane in 0 2

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Contact

Information	+44 (0) 7871 535 862	Available for interview for Nov. starts.
BACKGROUND	• Quant. experience: Equity & credit exotics	
	• 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 Intelligence, A Quant. Data Architect & Consultant (gap year)	uckland, NZ Oct. 2014 - 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 & Calibration EMC, L Junior Quantitative Analyst (off-cycle internship)	ondon UK Feb. 2014 - Aug. 2014
	 Author of the Model Validation for PV and Δ cale Validating the structure of exotic trades in equitie Writing efficient VBA model validation routines to a Daily user: VBA, SPLiFE (CBK language) Casual user: Bloomberg 	culations on Factor & Pair Factor Certificates es, commodities and alternative investments
EDUCATION The University of Edinburgh, M.Sc. Theoretical Physics. *Dissertation: Generalised Hybrid Monte Carlo - Python -		· · · -
	The University of Surrey , B.Sc. Hons. Physics wi <i>Dissertation</i> : "Modelling Value at Risk (VaR)" - F	
Projects	The University of Auckland, Stochastic Estimatic Research Programmer: Deep Neural Networks - pyth	
Extra Curricula	Institute of Physics Associate Member (AMInstP)	2014 - Present
	Institute of Mathematics Associate Member (AMIMA	2014 - Present
	Surrey University Snowsports Snowboard Captain (Av Surrey University Snowsports Social Secretary ("Inve	
Awards & Grants	 Scargill Educational Foundation The Ann Powtrell Foundation 	$2015 \\ 2015$
	$Referees\ Available$	on Request

Currently working on Deep Learning projects.