

MARIE OLDFIELD

Director of Oldfield Consultancy

Chartered Statistician, Chartered Scientist, Fellow

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Marie (CStat, CSci, PStat, FIScT) is the CEO of Oldfield Consultancy and Kuinua Coaching. Marie is a sought after global leader in her field; experienced in leading large global analytics teams to drive and transform strategic insights and decision making for Defence, Governments and the Private Sector. Marie works at the forefront of Ethical AI, driving improvement, and development. Marie is an established global speaker, sharing her stories and experiences of Statistics, AI and Defence. Marie has been called upon to validate degrees and provide input to industrial University Modules by UK Universities. Marie gives back to the global community through extensive pro bono work. Marie is extremely proud to be able to improve the life chances of the poorest and most vulnerable across the globe. More generally Marie works with developing countries on health, poverty and education.

Licenses and Professional Memberships

DV, SC, CTS, Chartered Statistician, Chartered Scientist CSci, Government Badged G7 Statistician, Prince II

Education

 PhD Artificial Intelligence & Ethics University of Portsmouth A series of published papers exploring the future of technology and modelling. Al focussed.
 MSc Philosophy University of Glasgow Dissertation challenging fundamental theory around Al and Intelligence
 MSc Statistics (Distinction) University of Portsmouth Dissertation challenging fundamental theory around control group use in clinical trials for MOD.
 BSc (Hons) Mathematics & Statistics

Professional Engagements

Executive Member & Fellow	Institute of Science and Technology (IST)		Present	
Expert Fellow	Sprite +		Present	
College of Peer Reviewers	Rephrain		Present	
Expert Advisor	(Oldfield Consultancy)	University of Huddersfield	2019	

Providing expert statistical input to modelling questions on big data concerning disadvantaged students.

Consultant Panel Member(Oldfield Consultancy)University of Huddersfield2018Requested as Panel Member on the validation board for the set-up of a new BSc Mathematics degree.

Expert Advisor(Oldfield Consultancy)Two-Four Productions2019Statistical consultancy involving reformatting of TV shows for Channel 4.

Director of Oldfield Consultancy: Projects & Contracts

University of Portsmouth

Ethical AI funding bid for a new software for Water Security.

University of Portsmouth

Consulting to a NATO Project Bid on Conflict Contagion and Resolution by using AI monitoring systems.

EFTAI Funding Table

- Working with University of Keele and the Health Foundation on amendments to funding applications for AI to ensure that the AI being developed is ethically robust. In Feb 2021 we held a round table with top level stakeholders form industry and academia.
- Paper submitted to Springerlink AI Journal.

Consultancy Statistics & Ethics

Ministry of Justice

2020

Scoping, developing and implementing processes for big data and architecture of new systems.

Consultancy Procurement

Leading on CAT A Programme with additional CAT B/C.

Contract Negotiation & development, Programme Management of procurement and implementation of 1Bn infrastructure supporting CASD.

CASD MOD

Contract Negotiation, Contract development, Programme Management of procurement of 1Bn infrastructure to support CASD.

Using procurement framework, monitoring and evaluating internal processes continually improving quality, business cases, establishing legal, insurance and liability risk, ensuring product description is achieved. Scoping, contractor engagement and management. Supplier management throughout contract.

Consultancy & Ethics

- Consultancy support to Higher & Advanced Staff Course. Red teaming, War Gaming and OA. Expert advice on modelling, analysis and Audit, AQuA & MacPherson. Excel and VBA.
- Validation and Verification of a PWC RAF Airframe and Training Model.
- Validation and Verification of ballistics model for dstl.

Consultancy, Ethics, Big Data 2019 University of Huddersfield

Providing expert statistical input to modelling questions on big data concerning disadvantaged students.

NSC

Consultancy Statistics Two-Four Productions Statistical consultancy involving reformatting of TV shows for Channel 4.

IT Programme Management

NATO 2019 Scoping and implementation of multi million € IT upgrade project for air military capability.

Consultancy BREXIT Borders

Home Office Leading on scope, develop, deliver new borders programs, implementation and processes.

Project Management and Programme management of workstream: Scoping, developing and managing delivery of analytical products to support decisions across the EUXP work strand. Using simul8 and visual logic to model complex operational border processes. Stakeholder Management cross EUXP work strand. Facilitating workshops, systems thinking and proof of concept.

Technical review:

Review of core models supporting operational delivery of Border Force EU Exit strategy. Mitigating where evidence gaps affect policy decisions or put operational delivery at risk of failure. Leading Quality Assurance/Ethics/Audit methods across main department models, using UK Government AQuA Principles.

Consultancy Defence Analysis

Applying OR/ OA techniques (Excel, GIS, simulation, statistical analysis, R) to analyse military problems. Debugging J-Darts (Defence Planning Analysis and Requirements Toolset) software which uses VBA like language. Providing fit for purpose, guick analysis and briefings.

Technical Review: •

Review techniques, and results of surveys used in social research to collect data from Citizens of Afghanistan. Delivering results to Command to impact the way forward in Afghanistan.

Personal Career

Consultant (G7)

GSS/DSTL Project Management and Lead Analyst. Team and Programme Lead.

• Project Management, Economic Analysis and Financial:

Implementation scoping, development and delivery of new models, IT programs and processes. Leading on managing a contractor to undertake monitoring and evaluation of multiple tests and trials. Project Manager for multiple teams working on the Operational Analysis Support Paper (Multi Billion pound procurement decision on Fleet Solid Support Ships) and COEIA (Statistical Analysis, Modeling and Balance of Investment).

• Consultancy:

Senior Consultant and Project Manager to many and varied projects such as Border Force (Social Research). RAF(Hardware), Conflict Contagion (Social), Forensics (CBRN), Wargaming and SDSR.

• Policy and Strategy:

Developing and implementing successful strategy for Statistics, Quality and Modeling cross business and cross Government. Integrating strategy with training provision for analysts.

2019

2019

2018

NATO

2016 - 2017

2014 - 2016

2020

Military Field Training to support fast paced, immediate decisions.

• Social Research:

Creating a new morale strategy with Human Psychology to benchmark the business. Leading the monitoring and evaluation strategy for test and trial proposals. Advising senior leadership and senior stakeholders on areas for focus, feedback, progress, limiting factors, gaps and initial insights.

Previous Experience: NATS Sustainable Route Planning Consultant, AA Management Information Consultant, Rolls Royce; Lean.

Publications <u>https://www.researchgate.net/profile/Marie-Oldfield</u>

Awaiting Submission

•	Book Chapter Invitation on Anthropomorphism for Edw	ard Elgar Research Eutur	es Book				
	Demography/Population Research Centre, Faculty of S			2021			
-	Explainability and Modelling Systems		ubmitting to Chi	2021			
-	Anthropomorphism and the Impact on Perception and Implementation of AI Systems 202						
-	System Monitoring and Control, AI Implementation on		51110	2021			
		Reliability Engineering &	System Safety	2021			
•		ng to Journal of Humanisti		2021			
-	Dehumanisation as a consequence of Al	-	nitting to ACM	2021			
- D		Subi	mung to ACM	2021			
<u>-</u>	 <u>Published</u> Ethical Funding for Trustworthy AI: Proposals to address the responsibilities of funders to ensure that 						
-				2021			
ht	projects adhere to Trustworthy AI practice tps://rdcu.be/cmtnG	Fublished	d by AI and Ethics	2021			
•	Analytical Modelling and Government Policy	Dublicho	hy Al and Ethica	2021			
	tp://link.springer.com/article/10.1007/s43681-021-00078-9		d by AI and Ethics	2021			
-	Why interdisciplinary research in AI is so important, ac		IST	2021			
	Will Al take your job?		IST	2021			
	UK Risk Assessment and Analysis Policy		K House of Lords	2021			
	UK Data Transparency and Accountability Policy		K Parliament	2021			
•	Parliamentary Office for Science and Technology	0	POST	2021			
-	Conflict Contagion & Internal Conflict		IMA	2020			
	Masters Notebook – Statistician puts Experience to Wo	ork for Othors	ASA	2010			
-	Masters Notebook - Statistician puts Experience to We	Sik ibi Others	AGA	2010			
С	onference Presentations						
				TD 4			
•	Belief Systems and Cyber Security			TBA			
Ethical Funding for Trustworthy AI: Proposals to address the responsibilities of funders to ensure that							
	projects adhere to Trustworthy AI practice	AISB		2021			
•	Al and Ethics	Royal Statistical Society		2021			
•	Al and Ethics	Institute of Science and	 , , ,	2021			
•	Al and Anthropomorphism	Royal Geographical Soc	•	2021			
•	Al and Anthropomorphism	University of Portsmouth	1	2021			
•	Seminar Series on Crisis	Oldfield Consultancy		2020			
•	The 'So What' of Analysis	IST		2019			
•	Consultancy Workshop	RSS		2019			
•	Clinical Trials and Power of Studies	RSS and GSS		2016			
•	Conflict Contagion & Predicting Internal Conflicts	RSS		2015			
V	oluntary Work & Committees						
S	TEM Ambassador	STEM	2015	-Present			
-	atisticians for Society	Royal Statistical Society		- Present			
	pert Advisor	Pro Bono Economics		- Present			
	nair - Women in Tech	IST		- Present			
-	nair - Al Special Interest Group	IST		- Present			
Editorial Committee		IST		- Present			
Science Council Chartership Assessor		Science Council		-Present			
Operational Research Consultancy Group		OR Society		- Present			
Chartership Assessor		Royal Statistical Society					
Professional Affairs Committee		Royal Statistical Society					
	nance and Economics Group	Royal Statistical Society					
	atistics without Borders	ASA	2010-				