



# MARIE OLDFIELD

Director of Oldfield Consultancy

Chartered Statistician, Chartered Scientist, Fellow

[MARIE@OLDFIELDCONSULTANCY.CO.UK](mailto:MARIE@OLDFIELDCONSULTANCY.CO.UK) | 07392605745 | Scotland (Can travel or relocate)

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. AI focussed.
- **MSc Philosophy** **University of Glasgow**  
Dissertation challenging fundamental theory around AI 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** **University of Portsmouth**

## Professional Engagements

<b>Executive Member &amp; Fellow</b>	<b>Institute of Science and Technology (IST)</b>	<b>Present</b>
<b>Expert Fellow</b>	<b>Sprite +</b>	<b>Present</b>
<b>College of Peer Reviewers</b>	<b>Rephrain</b>	<b>Present</b>
<b>Expert Advisor</b>	<b>(Oldfield Consultancy) University of Huddersfield</b>	<b>2019</b>
Providing expert statistical input to modelling questions on big data concerning disadvantaged students.		
<b>Consultant Panel Member</b>	<b>(Oldfield Consultancy) University of Huddersfield</b>	<b>2018</b>
Requested as Panel Member on the validation board for the set-up of a new BSc Mathematics degree.		
<b>Expert Advisor</b>	<b>(Oldfield Consultancy) Two-Four Productions</b>	<b>2019</b>
Statistical 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 from industry and academia.
- Paper submitted to Springerlink AI Journal.

<b>Consultancy Statistics &amp; Ethics</b>	<b>Ministry of Justice</b>	<b>2020</b>
Scoping, developing and implementing processes for big data and architecture of new systems.		



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

**Awaiting Submission**

- Book Chapter Invitation on Anthropomorphism for Edward Elgar Research Futures Book Demography/Population Research Centre, Faculty of Spatial Sciences, University of Groningen 2021
- Explainability and Modelling Systems *Submitting to Chi* 2021
- Anthropomorphism and the Impact on Perception and Implementation of AI Systems 2021
- System Monitoring and Control, AI Implementation on Complex Platforms *Submitted to Reliability Engineering & System Safety* 2021
- Pedagogy in the future of ethical analysis *Submitting to Journal of Humanistic Mathematics* 2021
- Dehumanisation as a consequence of AI *Submitting to ACM* 2021

**Published**

- Ethical Funding for Trustworthy AI: Proposals to address the responsibilities of funders to ensure that projects adhere to Trustworthy AI practice Published by AI and Ethics 2021  
<https://rdcu.be/cmtnG>
- Analytical Modelling and Government Policy Published by AI and Ethics 2021  
<http://link.springer.com/article/10.1007/s43681-021-00078-9>
- Why interdisciplinary research in AI is so important, according to Jurassic Park IST 2021
- Will AI take your job? IST 2021
- UK Risk Assessment and Analysis Policy UK House of Lords 2021
- UK Data Transparency and Accountability Policy UK Parliament 2021
- Parliamentary Office for Science and Technology POST 2020
- Conflict Contagion & Internal Conflict IMA 2016
- Masters Notebook – Statistician puts Experience to Work for Others ASA 2016

**Conference Presentations**

- 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
- AI and Ethics Royal Statistical Society 2021
- AI and Ethics Institute of Science and Technology (IST) 2021
- AI and Anthropomorphism Royal Geographical Society 2021
- AI and Anthropomorphism University of Portsmouth 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

**Voluntary Work & Committees**

- |  |                           |               |
|--|---------------------------|---------------|
| STEM Ambassador                        | STEM                      | 2015 -Present |
| Statisticians for Society              | Royal Statistical Society | 2018- Present |
| Expert Advisor                         | Pro Bono Economics        | 2021- Present |
| Chair - Women in Tech                  | IST                       | 2021- Present |
| Chair - AI Special Interest Group      | IST                       | 2021- Present |
| Editorial Committee                    | IST                       | 2020- Present |
| Science Council Chartership Assessor   | Science Council           | 2020 -Present |
| Operational Research Consultancy Group | OR Society                | 2019- Present |
| Chartership Assessor                   | Royal Statistical Society | 2019-2020     |
| Professional Affairs Committee         | Royal Statistical Society | 2019-2020     |
| Finance and Economics Group            | Royal Statistical Society | 2018-2021     |
| Statistics without Borders             | ASA                       |               |