Dr Claire Lucas

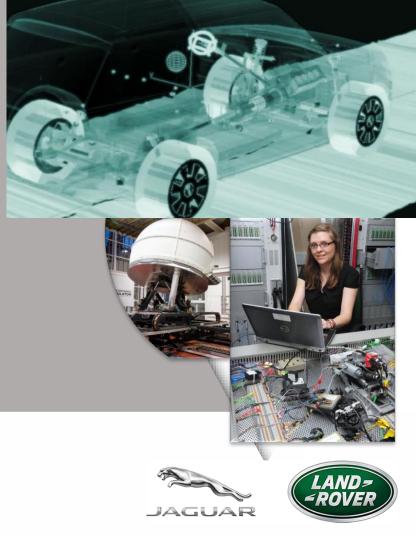
- MEng Engineering Science (University of Oxford)
- PhD Biomedical Engineering (University of Oxford)
- Mathematical Modelling Specialist (Jaguar Land Rover Ltd)
- Associate Professor & Director of Studies (University of Warwick)
- Fellow IMechE, Senior Fellow HEA
- QAA Engineering Subject Specialist





Industrial Experience: Jaguar Land Rover Ltd. 2012-2015

- Capability improvement for virtual engineering
- 'Virtual Hub' of modellers and simulation engineers creating tools for the rest of the business
- Industrial supervisor for Programme for Simulation Innovation Theme 3: University of Leeds – Driver Simulator
- STEM Outreach, T-level and Degree Apprenticeship activity
- 2019 IMechE Simulation & Modelling Conference Panel Chair



Since 2015: Director of Studies, University of Warwick

- Curriculum and Quality
 - Industry relationships
 - Process and policy
 - Accreditation
 - Assessment
 - Staff workload, management & mentoring
- Teaching Delivery
 - Systems Modelling, Simulation, Systems Engineering Principles, Design of Experiment, Vehicle Dynamics
- Research
 - Active systems for vehicle dynamics
 - Student experience of group work and peer review
 - Student survey analysis and actions
 - Gender, systems thinking and curriculum





understand

analyse

principle

self

together

cooperative

collaborate

support

lead

compassion

communal

independence

challenging

objective

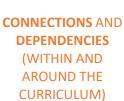
connect

women felt that job adverts with masculine-coded language were less appealing and that they **belonged less in those occupations.**

Evidence That Gendered Wording in Job Advertisements Exists and Sustains Gender Inequality (Journal of Personality and Social Psychology, July 2011, Vol 101(1), p109-28).

Gender, Curriculum and Pedagogy





CO-OPERATIVE AND COLLABORATIVE ASSIGNMENTS ASSESSMENT WHICH REWARDS ACCOUNTABILITY AND SHARED OWNERSHIP

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KNOWLEDGE SHARING AND SUPPORT



COMPASSIONATE AND RESPONSIBLE ENGINEERING



ENTHUSIASTIC AND COMMITTED ROLE MODELS



World Challenges



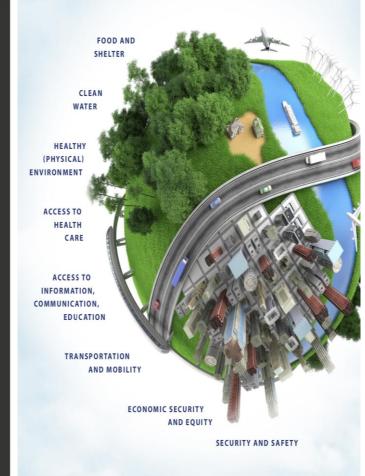


13 Advance

14

personalized learning

Engineer the tools of scientific discovery



Systems Engineering Degree Re-Launch



A holistic, end-to-end approach to solving complex, ill-defined problems arising from interactions within and around dynamic systems.

- Modelling and understanding of complex systems which interact with and impact the user and surrounding systems in order to predict behavior and prevent unintended outcomes
- Design of systems which meet poorly expressed and often conflicting needs seeking a balanced solution to a problem
- Development of intelligent and autonomous systems which adapt dynamically to information

This advert is neutral

