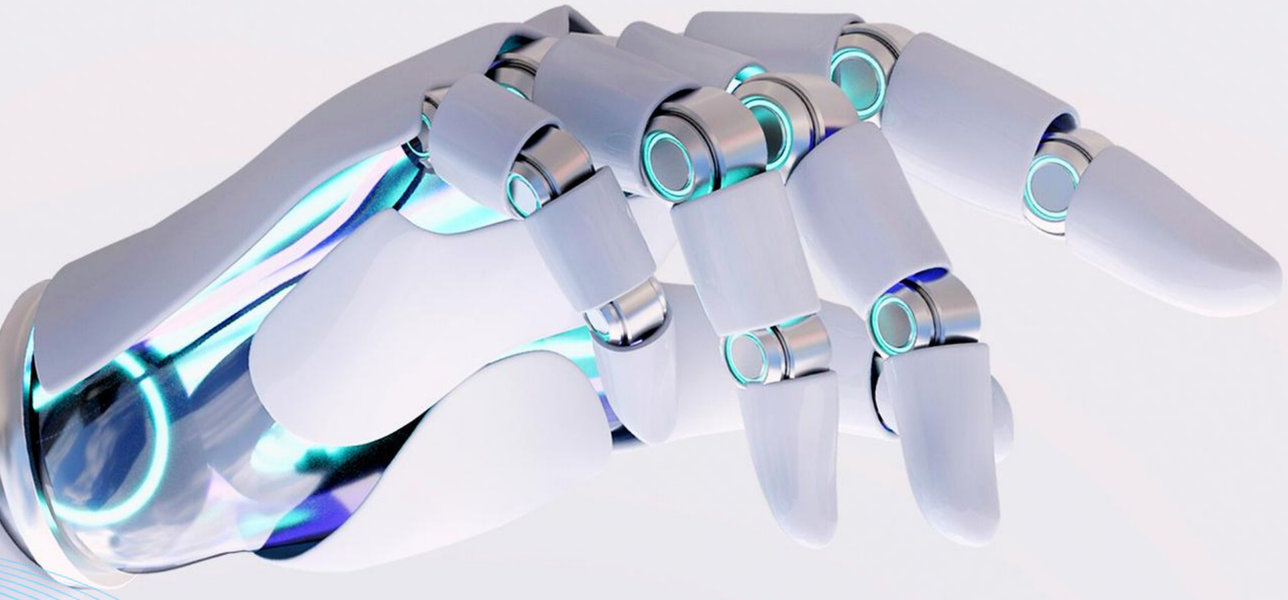




University of Bristol

Who Is Exposed to AI?

Educational and Gender Differences in AI Exposure in the UK

Xinya Hu
PhD Education Year 2

Why does AI matter?

Economics

This article is more than **1 year old**

Number of new UK entry-level jobs has dived since ChatGPT launch – research

Vacancies for graduate jobs, apprenticeships, internships and junior jobs with no degree requirement have dropped 32%, Adzuna finds

Business live – latest updates

Lauren Almeida

Mon 30 Jun 2025 08.17 BST

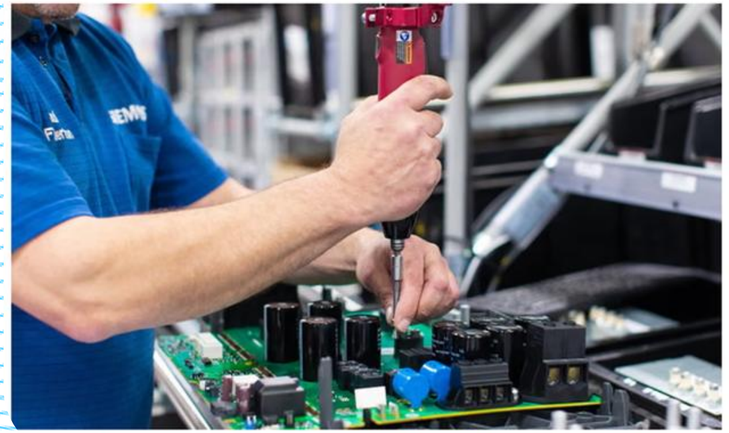
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AI-based automation of jobs could increase inequality in UK, report says

Government intervention key to supporting businesses through transition, research by thinktank suggests



A worker at a Siemens production facility in the UK. A survey of 5,000 UK employees found 'a

Millions of jobs at risk due to AI, forecasting watchdog tells Treasury

The OBR has conducted analysis suggesting 2.1 million jobs in the financial and professional services industries are at risk. The Treasury appears to believe that all of these replaced workers could find new jobs.



Tim Baker

Political reporter @TimJ_B

EXCLUSIVE

Union says workers 'being replaced by AI' as British Gas cuts 500 jobs

BRITISH GAS | JOBS | Friday 12 June 2026 at 6:17pm



Joel Hills

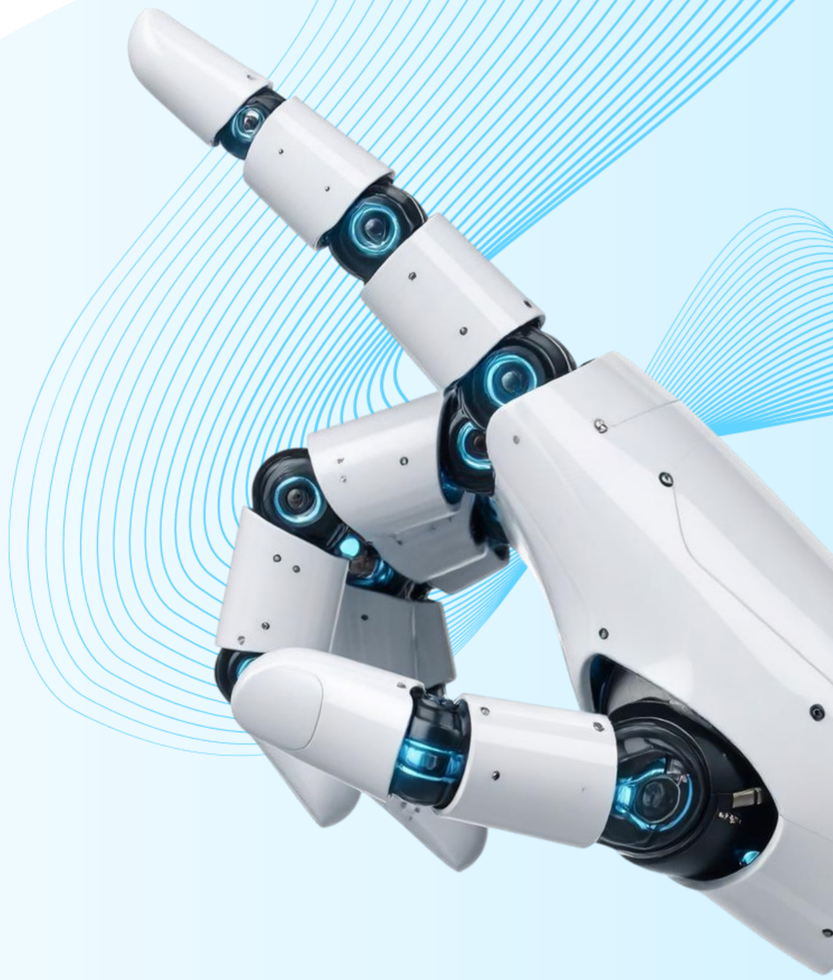
Business and Economics Editor

How Has Research on AI and the Labour Market Evolved?

01 **Felten et al. (2021): AI Occupational Exposure (Exposure index)**
The index identifies occupations where **the tasks people do** are more closely **related to what AI can currently do**.

02 **Pizzinelli et al. (2023): Complementarity index and Complementarity-Adjusted AI Exposure (Substitution index)**
Complementarity index extends the analysis by distinguishing between AI exposure and the **potential for AI to complement human labour**.

The Substitution Index combines AI exposure with complementarity to capture potential substitution pressure. A **higher value** indicates **greater potential for substitution**.



Key Research Question

01 How are **AI-related indices** of exposure, complementarity, and potential substitution distributed across **educational attainment, field of study, and gender** in the UK labour market?

Key Findings: Evidence from the 2023-2024 UK Labour Force Survey (LFS)

Figure 1. OLS regression results of educational attainment and AI related indices (Controlled for age)

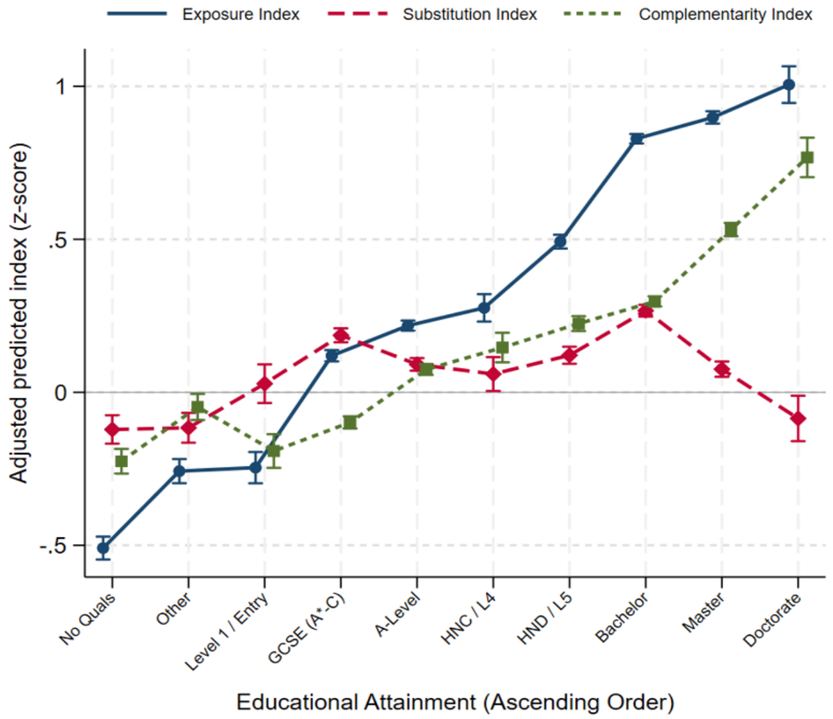
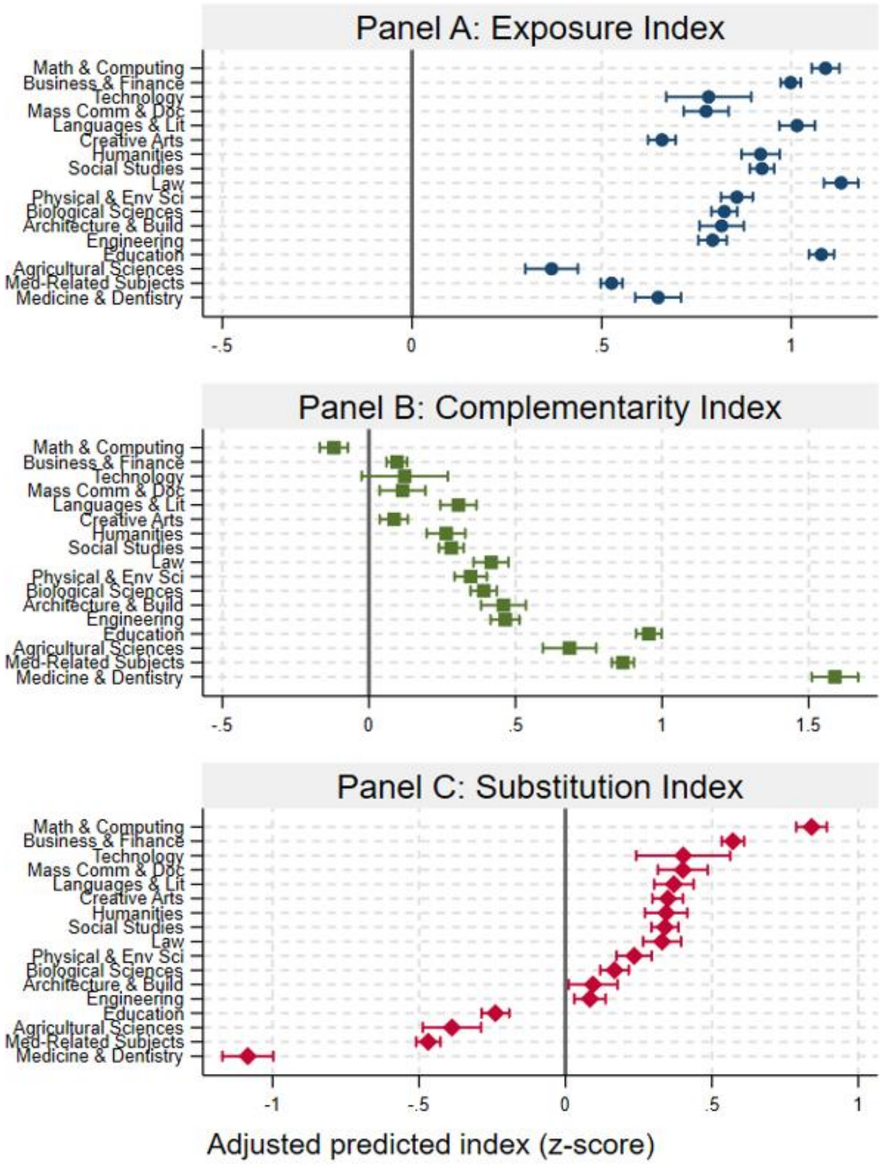


Figure 2. OLS regression results of field of study and AI related indices (Controlled for age)

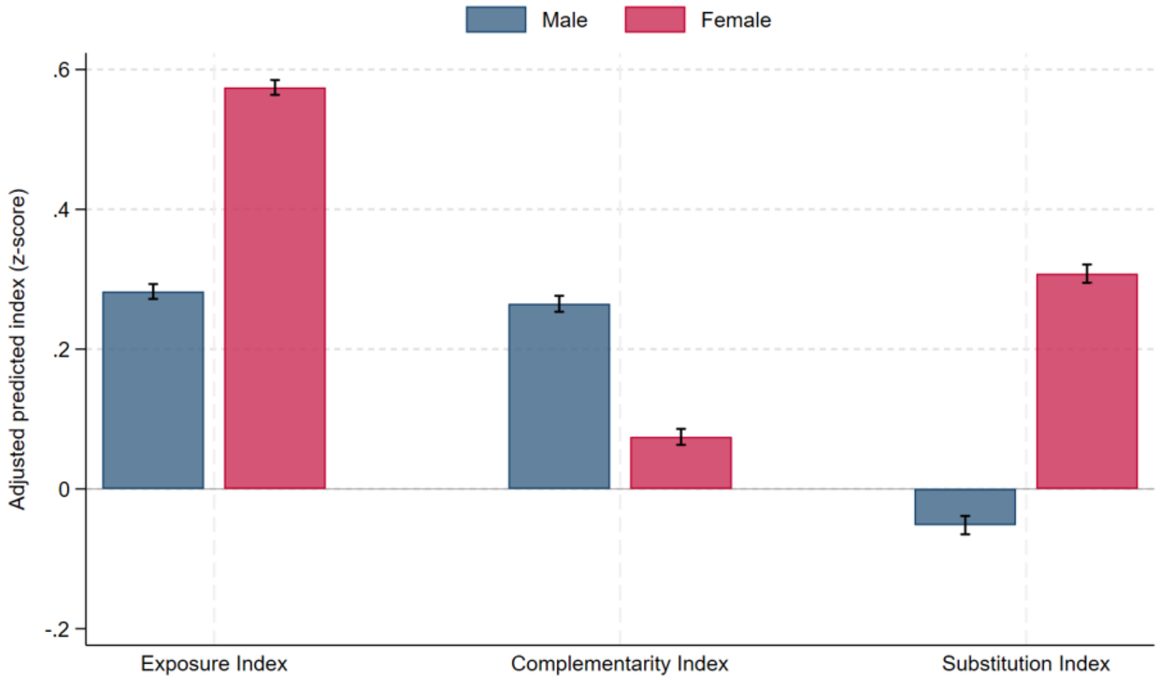


01 Exposure and Complementarity **increase with education level**, but substitution follows **a non-linear pattern: bimodal pattern.**

02 **Education stands out!**

Key findings: Gender differences

Figure 3. OLS regression results of gender and AI related indices (Controlled for age and educational attainment)



Women still have a higher average Substitution Index than men

Thank You!



