

JACK BURNETT

14 THE ROWS, WESTON-SUPER-MARE,
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PROFILE

I am a PhD student in the Interactive AI CDT at the University of Bristol, with prior lecturing experience in FE and HE provisions. Within my research, I am currently exploring how human-in-the-loop AI systems can assist accessible interface design; through the research, tools have been created to enable the algorithmic generation of accessible video game controllers, including layout optimisation and generation of 3D-printable files. My research builds upon skills developed through my MSc, BSc, and PGCE teachings. Current research is yet to be submitted for publication

EDUCATION

INTERACTIVE AI PHD | UNIVERSITY OF BRISOL | SEPTEMBER 2023 – PRESENT

Working Research Title: Creating an accessible physical interface development toolkit with generative AI and parametric design

Taught Modules: Machine Learning Paradigms, Dialogue and Narrative, Responsible AI, Research Methods for Interactive AI, Uncertainty Modelling for Intelligent Systems, and Computational Logic.

INFORMATION TECHNOLOGY MSC | UWE BRISOL | SEPTEMBER 2021 – AUGUST 2023

Graduated with Distinction

Key Modules: Project Management, Digital Design and Development, Designing the User Experience, Machine Learning, Strategy and Governance in IT, and Information Security.

Dissertation Topic: 'The Opportunities and Risks of AI in Mental Health Diagnosis'

PGCE SECONDARY COMPUTER SCIENCE | UWE BRISOL | SEPTEMBER 2020 – JULY 2021

Graduated with Pass and QTS

Key Modules: Pedagogical Approaches, Educational Policy, and Evidence-based Practice.

COMPUTER SCIENCE BSC (HONS) | UNIVERSITY OF BATH | OCTOBER 2017 – JULY 2020

Graduated with Honorary Second-Class Upper Division (2:1)

Key Modules: Principles of Programming, Computer Systems Architecture, Discrete Mathematics, Human-Computer Interaction, Fundamentals of Visual Computing, Functional Programming, Artificial Intelligence, Entrepreneurship, Intelligent Agents, Networking, and Safety-Critical Systems.

Dissertation Topic: 'Developing an Open-Source Research Application to Monitor and Analyse Phone Usage and its Effects on Users, alongside Potential Personal Informatics Tools'

SKILLS & ABILITIES

Artificial Intelligence, Human-Computer Interaction, Physical Interface Design, User Studies, Research, Teaching and Pedagogy, Parametric Design, Responsible AI, Python, and Java.

EXPERIENCE

LECTURER | WESTON COLLEGE, WESTON-SUPER-MARE | AUGUST 2021-JANUARY 2024

Role responsibilities: Lecturing on Data Analysis (Level 4) and Data Analytics (Level 6) on BSc Digital and Technological Solutions, lecturing on Digital T-Levels and Level 3 BTEC Applied Computing with a focus on Data and Programming. Development of a Digital UX degree apprenticeship.

STUDENT TEACHER | CALDICOT SCHOOL, CALDICOT, WALES | APRIL 2021-JUNE 2021

Role responsibilities: Teaching Years 7, 8, 9, 10, and 12 Computer Science and IT; Teaching Year 12 Business. Using formative assessment and summative assessment for end-of-year grading.

STUDENT TEACHER | KINGSMEAD SCHOOL, TAUNTON | NOVEMBER 2020-APRIL 2021

Role responsibilities: Preparing and teaching remote and in-class learning for Years 7, 8, 9, and 10. Extra-curricular 'Wii Wednesdays' during lunchtimes. Assisting with a set tutor group.

VOLUNTEERING

EDUCATIONAL SPEAKER | CATS PROTECTION | SEPTMEBER 2023-PRESENT

Role responsibilities: Ambassador for Cats Protection, raising awareness of the charity, enhancing children's understanding of feline welfare, and providing information sessions for local groups.

QUALIFICATIONS AND LICENSES

Enhanced DBS check (with update service)
Full driving license

Awarded by: DBS/Gov.uk
Awarded by: DVLA

HOBBIES & INTERESTS

Programming & Software engineering, Video Gaming, Contemporary Technology, Researching, Puzzle games, Managing Online Communities, AI research, Arduino, Card Games, and Animals.

PROFESSIONAL BODY MEMBERSHIPS

British Computer Society	-	Professional membership
Institute of Engineering and Technology	-	Professional membership

REFERENCES

Professor Anne Roudaut
Professor of Human-Computer Interaction
School of Computer Science
University of Bristol
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Dr Paul Marshall
Associate Professor of Human-Computer Interaction
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Previous Academic References available on request