

JOB DESCRIPTION AND PERSON SPECIFICATION

Job Title: Postdoctoral Research Fellow	Accountable to: Professor Jane Harris
Contract Length: up to 3 years FTE: 0.75 FTE	Weeks per year: 52
Salary: £38,010 to £45,603	Grade: 5
College/Service: Academic and Development Services	Location: London College of Fashion, John Princes Street/Holition, 3-4 Thavies Inn House Holborn Circus EC1R 2PN

Purpose of Role:

Part of *The Business of Fashion, Textiles and Technology*, the University of the Arts London's Creative R&D Partnership award, this role will be integral to the successful delivery of a workstream focused on future retail and consumer experiences.

The role will support R&D in cutting-edge Image Processing, Graphics and Deep Learning techniques to be used to enhance Holition's tracking and visualisation techniques in the field of virtual product try-on for fashion retail. This requires expertise from data capture of complex objects through to rendering and display.

There will be a strong focus on machine learning, with particular interest in technologies such as neural networks and Generative Adversarial Networks.

Duties and Responsibilities

1. To lead the development of a tracking and visualisation tool to be built using Holition's proprietary augmented reality software.
2. To manage code stores/repositories and coordinate integrations.
3. To recommend appropriate hardware for integration and deployment of the software.
4. To work closely with Chief Technology Officer and Chief Software Architect from Holition in design of software architecture and choices of 3rd party dependencies.
5. To liaise between London College of Fashion, Holition and all external partners on the project to ensure that development is in line with project expectations.
6. To perform such duties consistent with your role as may from time to time be assigned to you anywhere within the University.
7. To undertake health and safety duties and responsibilities appropriate to the role.
8. To work in accordance with the University's Equal Opportunities Policy and the Staff Charter, promoting equality and diversity in your work.
9. To undertake continuous personal and professional development, and to support it for any staff you manage, through effective use of the University's Planning, Review and Appraisal scheme and staff development opportunities.
10. To make full use of all information and communication technologies to meet the requirements of the role and to promote organisational effectiveness.

11. To conduct all financial matters associated with the role in accordance with the University's policies and procedures, as laid down in the Financial Regulations.

Key Working Relationships: Managers and other staff, and external partners, suppliers etc; with whom regular contact is required.

- CEO, Holition
- Director of Research & Innovation (Straford), London College of Fashion
- CTO, Holition
- Chief Software Architect, Holition
- Producer, Holition
- Director of the Digital Anthropology Lab, London College of Fashion
- Director of the Department of Anthropology, UCL
- Director of Research Department, V&A Museum

Specific Management Responsibilities

N/A

Signed _____ Date of last review _____

(Recruiting Manager)

Job Title: Postdoctoral Research Fellow in Computer Imaging and User Experience Design,
Business of Fashion Textiles & Technology

Grade: 5

Person Specification	
Specialist Knowledge/ Qualifications	<p><i>Essential</i></p> <p>Deep understanding of Maths / Machine learning / AI techniques demonstrated through a PhD in Computer Science (or related discipline).</p> <p>Strong programming skills (C / C++, Python and relevant frameworks such as TensorFlow).</p> <p>Excellent problem-solving and debugging abilities.</p> <p>Strong experience and understanding of OpenCV and other third party library algorithms.</p> <p>Experience with OpenGL and/or DirectX.</p> <p>Able to work on Microsoft Windows and/or Mac OSX using Visual Studio and/or xCode.</p> <p><i>Desirable</i></p> <p>Experience with CUDA / OpenCL.</p> <p>Experience with Android and iOS App development.</p> <p>Experience with Unity3D and other App Engines.</p> <p>Experience with Mercurial / Git.</p> <p>Experience in and passion for XR technologies in the context of fashion retail and/or cultural settings.</p>
Relevant Experience	<p>Hands-on experience in image processing development.</p> <p>An understanding of and experience working with GANs.</p> <p>Experience of writing research reports, bidding for research funding, publishing and disseminating research outcomes.</p>
Communication Skills	<p>Ability to communicate orally and in writing adapting the message for a diverse audience in an inclusive and accessible way.</p>
Leadership and Management	<p>Self-motivation and the ability to work independently on your own projects.</p>
Professional Practice	<p>Contributes to advancing professional practice/research or scholarly activity in own area of specialism.</p>
Planning and managing resources	<p>Maintains awareness of available resource and uses initiative</p>

Teamwork	<p>Works collaboratively in a team across industry and academia.</p> <p>Is able to take appropriate level of responsibility and act with initiative.</p>
Student experience or customer experience	<p>Builds and maintains positive relationships with students and participants.</p>
Creativity, Innovation and Problem Solving	<p>Suggests practical solutions to new or unique problems.</p>