Amrit Bath

Interdisciplinary researcher exploring the future of digital fashion, generative AI, and accessible education, with experience across research, innovation, and public speaking.

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EDUCATION

2021-2025: The University of Manchester, Physics BSc with Integrated Foundation Year
• Foundation Year: 85%; First Year: 60%, Second Year: 66%, Current Third Year: 81.5%.
• Studied modules including quantum mechanics, relativity, statistical processes, thermodynamics, particle physics, and astrophysics.
• Optimised advanced Python and C++ skills through programming modules and lab projects, including analysis of particle decay data from the LHC and observational work using the 42ft telescope at Jodrell Bank Observatory. Further enhanced modelling skills through the application of computational techniques in my dissertation project.
• Focused on the intersection of technology and the fashion industry throughout my degree, completing industry collaborations in digital technology. My dissertation explored smart textiles, additional modules include human interaction with AI.

2014-2021: Sir William Perkins School
• A-Levels: A* in Physics, A in Maths, B in Chemistry.
• GCSEs: 9-6 in 10 subjects, including English, Maths, and triple Science.

TECHNICAL & CREATIVE SKILLS

• Programming: Python, C++, ROOT, Markdown.
• Digital Fashion Tools: Clo3D, Style3D.
• Video Editing: Adobe Premiere Pro, After Effects.
• Data Analysis: Excel, Jupyter Notebook, LaTeX.
• Communication: Public speaking, academic writing, panel moderation.
• Research & Collaboration: Scoping reviews, interdisciplinary teamwork, curriculum co-design.

RELEVANT EXPERIENCE

April 2025 – Present: Co-Creation Panel Member – Meteorology and Forecasting Curriculum, University of Manchester
• Collaborating with faculty and peers to reimagine the final-year Meteorology and Forecasting course, with a focus on accessibility, neurodivergent inclusivity, and deep-learning assessment structures.
• Contributed to the design of a coursework-led model replacing final exams, incorporating research-based assessments to better reflect student needs.
• Providing student insight to restructure content delivery, promote flexible engagement, and integrate diverse learning preferences.
• Leading Adobe Premiere Pro-based video editing to remake and enhance course materials for clarity and engagement.

6th October 2024 - Present: **Research Analyst, AIEdify**
• Researched in an AI-focused startup in education, overseeing development of AI tools

and content creation. Focus points include building partnerships with educational institutions to enhance AI integration in curricula.

October 2024 – May 2025: L'Oréal Brandstorm Semi-Finalist, L'Oréal
• Selected as a national semi-finalist in L'Oréal's global innovation competition, from 160+ pitches.
• Delivered a pitch to L'Oréal executives, integrating market research, quantified consumer insights, and technical feasibility analyses.
• Pitched a loyalty-driven grooming app using AI skin scanners and gamified routines to encourage consistency among Gen Z male consumers.
• Applied user-centred design principles and emphasised ethical AI deployment, sustainability, and inclusivity throughout the concept.

22nd July - 31st August 2024: Research Intern: The Impact of Physical Fabric Properties on Virtual Garment Creation, University of Manchester
• Engineered textile tests and performance evaluations, creating a dataset to compare physical fabric properties with digital garment development software.
• Developed virtual and physical garment samples, contributing to sustainable fashion research. Applied Python for data analysis and modelling.
• Applied advanced digital prototyping using Clo3D and Style3D.

June 2024: Panel Speaker – "The Future of Teaching and Learning in Higher Education," University of Manchester T&L Conference
• Invited as a cross-disciplinary student speaker at the annual UoM Teaching & Learning Conference plenary, joining academics and industry leaders from institutions including MMU, FACE, and Aunty Agency.
• Contributed to discussions on the ethical integration of AI in education, emphasising personalised learning, accessibility, and the student role in shaping adaptive AI tools.
• Advocated for curriculum innovation that addresses industry needs, cross-disciplinarity, and the attainment gap for students from the global majority.

1st June - 19th July 2024: Research Intern: AI in Fashion: A Scoping Review, University of Manchester
• Completed a scoping review of AI applications in fashion, focusing on generative AI.
• Named Author in "The Impact of AI and 3D Digital Tools on Product Development" in The Future Priorities for Design, Branding, Marketing, and Retail: The Era of Technology and Sustainability (Emerald Publishing) Gallery, C., Chrimes, C., Bath, A. (2025).
• Collaborated with industry professionals to analyse AI's role in sustainable fashion practices, presenting findings in a report.
• Undertook interviews with industry experts, contributed to panel talks and attended symposiums.
• Involved working directly with ChatGPT from a research perspective.

July 2022: Laser Research Intern, Tokamak Energy
• Analysed Python algorithms to track laser stability, enhancing temperature measurement accuracy in the tokamak.
• Set up experimental apparatus and delivered presentations using Excel and PowerPoint.

ADDITIONAL EXPERIENCE & POSITIONS OF RESPONSIBILITY
• 2022-2023: Treasurer, UoM Makeup Society.
• September 2022 - June 2023: Tutor for Maths and Physics, The One Tuition.

- June - August 2023: Waitressing and Kitchen Porter, Corrie Hotel.
- 2013-2021: Co-chair, Digital Video Editing Club, Sir William Perkins School : Gained proficiency in Adobe Creative Suite and developed advanced videography skills through club leadership and volunteer projects.
- 2021: Engineering Education Scheme, BP (Gold Level Industrial Cadet).
- August 2019: Student Intern, Barclays Corporate, Canary Wharf.
- July 2019: Student Intern, Spinal Regeneration Department, Kings College London.
- 2018: Volunteer, UKPHA Empire of the Sikhs Exhibition at SOAS.
- 2016: Produced video for Windsor Homeless Project.

INTERESTS AND ACTIVITIES

Enjoy rock climbing, both indoors and outdoors, along with arts and crafts such as crocheting and sewing. Qualified makeup artist.

References available on request.