

# Andrea Enning

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## Professional Profile

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**Multi-disciplinary Technology Professional** operating at **SFIA Level 4–6** across 15 competencies, with experience spanning **8 organisations across 6 industries**. First Class dissertation on RAG architecture directly applicable to conversational discovery systems.

**Intercultural Identity Pioneer:** First result for “Afro-European” on Google Search—codifying a transnational identity category through published media and academic research. This positions me uniquely to work on heritage platforms that centre marginalised narratives.

Published researcher featured in the *British Journal of Sociology* (November 2025) and Marie Curie research subject for the MIDIC project examining intercultural identity in the UK diaspora context.

## Academic & Identity Credentials

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### Research Validation: An Inestimable Asset

#### EU Horizon 2020 Marie Curie Research (Sarli, 2022) — €212,000 Study

- Key participant in Dr Annalittoria Sarli’s MIDIC project (Grant Agreements 841716/874979)
- Research validated how **Second Generation Individuals (SGIs)** cultivate **Intercultural Competence (IC)**—skills essential for the modern labour market
- Sarli’s findings: SGIs are “**not to be seen as struggling but an inestimable asset**”—bicultural navigation is a strategic advantage, not a deficit

#### British Journal of Sociology (Varriale, November 2025)

- Featured as “Giovanni” in Dr Simone Varriale’s peer-reviewed article: “Meritocracy, Recognition and Double Consciousness: Why Black and Muslim Italians Move to (and Sometimes Leave) Post-Brexit Britain”
- The “Double Consciousness” framework validates the ability to navigate multiple cultural systems simultaneously

### Algorithmic Representation: Proof of Engineering Visibility

- **First Google Search result** for “Afro-European” and top-ranking for “Afro-Italian”
- Through intentional representational data production, intervened in how algorithmic image-ranking systems surface Afro-European identity
- Interviewed for **Italics Magazine** “Being Afro-European” series (July 2022)—high-authority European publication
- This proves **algorithmic visibility can be reshaped**—extending Dr Joy Buolamwini’s algorithmic justice work from unmasking bias to **unmasking potential**

### Decolonising the Curriculum Advocate

- Contributed to discourse that informed **USW’s CommExp: Decolonise** initiative
- Identified systemic barriers in IT education for BAME students (April 2020)—overly Westernised curriculum despite internationally diverse student body

## Experience

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## Founding Technical Architect | FirstGens CIC | April 2020 – Present (70+ months)

- **6-year strategic partnership** from founding “side hustle” to Diana Award-winning national organisation
- Secured **£46,000+** in external funding: £2,500 GirlDreamer/Mettle grant, £18,500 digitization grant, £25,000 FEA Young Innovator Award
- Built **NavigateU PWA** (React/TypeScript) for student navigation platform
- Developed **financial forecasting algorithms** and pricing simulators for board decision-making
- Performed **SaaS Trap audit** of Circle.so saving £3,000/year
- Created **AI-generated podcast** from Impact Report using ElevenLabs/NotebookLM
- **SFIA:** Stakeholder Management (Level 6), Solution Architecture (Level 5), Product Management (Level 5)

## Product Owner & Manager | PRGRSS / Global Purpose Enterprise | April – July 2025

- Led product development for global mentorship platform
- Managed cross-timezone development team (UK and Pakistan)
- Built four rapid prototypes using Lovable.dev (293 sessions)
- **SFIA:** Product Management (Level 5), Business Analysis (Level 4)

## Digital Technical Mentor | University of South Wales | Sept 2023 – Aug 2024

- Delivered Microsoft 365 training sessions on digital tools and software platforms
- Supported **23,000 users** across multiple campuses
- Managed web platform migration project (Terminal 4 CMS)
- **SFIA:** Service Desk (Level 4), Learning Delivery (Level 4)

## STEM Ambassador & Technical Trainer | Technocamps Wales | Feb 2023 – Aug 2024

- **Autonomous workshop leadership** across Welsh schools (LEGO Spike, Scratch, Micro:bits, Python)
- **Proactive problem-solving:** Laptop OS surgery (Ubuntu reinstallation), tablet software debloating
- **Stakeholder impact:** School feedback included “most engaged I have ever seen them”
- Delivered CPD training to Welsh educators on digital teaching strategies
- **SFIA:** Learning Delivery (Level 5), Stakeholder Management (Level 4)

## Executive Assistant & Microsoft Nonprofit Lead | Nfyfasi | Sept – Dec 2020

- Secured **\$5,000 Azure AI facility** through Microsoft nonprofit programme
- Navigated complete Microsoft compliance verification cycle
- LiDAR 3D scanning implementation
- **SFIA:** Supplier Management (Level 4), Governance (Level 4)

## Technical Projects

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### Financial Forecasting & Business Intelligence

- Developed **pricing simulation algorithms** for FirstGens EdTech platform costing analysis
- Built **TCO (Total Cost of Ownership) calculators** comparing Circle.so vs custom MVP development
- Created **market rate benchmarking tools** aligned with G-Cloud 14 Framework pricing

## **Heritage & AI Platforms**

- RAG-enabled conversational discovery system (First Class dissertation)
- Omeka S digital archive configuration for heritage collections
- Wazuh SIEM implementation for ISO/IEC 27001 alignment
- ElevenLabs voice cloning for oral history preservation

## **Infrastructure Projects**

- VMware environment with Active Directory SSO and PowerShell automation
- Microsoft 365 tenant hardening with MFA and Conditional Access
- NavigateU PWA (React/TypeScript on Netlify)

## **Education**

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### **AWS Cloud Engineering re/Start Bootcamp | Cardiff and Vale College | Sept 2024**

Cloud-native application design, network architecture, and security

**BSc (Hons) ICT** | University of South Wales | June 2024

- **Classification:** Second Class Honours (2:1)
- **Dissertation:** “Levelling the Playing Field Using Generative AI Coding Assistant—an Implementation of RAG Architecture” attained **First Class Honours**
- **PhD Pathway Identified:** USW AI Department professor indicated willingness to supervise PhD (emotionally intelligent chatbots for mental health)

## **Core Competencies (SFIA Level 4–6)**

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### **Strategy & Architecture (Level 4–5)**

- Innovation
- Strategic Planning

### **Change & Transformation (Level 5)**

- Product Management
- Benefits Management

### **Development & Implementation (Level 4–5)**

- UX Design
- Software Design
- Testing

### **Delivery & Operations (Level 4)**

- User Support (23,000+ users)
- IT Infrastructure

### **People & Skills (Level 5)**

- Learning Delivery
- Learning Management

### **Relationships & Engagement (Level 5–6)**

- Stakeholder Management
- Business Analysis

### **Data & Digital (Level 4)**

- Data Analysis
- Digital Accessibility

## **Technical Skills**

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### **Cloud & Microsoft**

- Azure Active Directory

- Microsoft 365 Admin
- SharePoint/Teams
- Conditional Access

## Security & Compliance

- Wazuh SIEM
- ISO/IEC 27001
- GDPR Compliance
- MFA Implementation

## Development

- Python/RAG
- React/TypeScript
- HTML/CSS/JavaScript
- Omeka S / Git

## AI & Data

- LangChain
- ElevenLabs
- NotebookLM
- Lovable.dev

## Languages

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English (Native) | Italian (Native)

## References

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- **Alaya Holloway** | Founder & CEO, FirstGens UK (Diana Award Winner)
- **Agnes Wamagui** | Knowledge Transfer Manager, InnovateUK Business Connect
- **Gary Thompson** | Cables and Cameras CIC, Bristol
- **Dr Youmna Mouhamad** | Founder, Nyfasi; RAEng Enterprise Fellow; Top 50 Women in Engineering 2020
- **Laura Roberts** | Technocamps, Wales