

Andrea Enning

Nottinghamshire, UK | andiekobbiets@outlook.com | [linkedin.com/in/andiekobbiets/](https://www.linkedin.com/in/andiekobbiets/) | github.com/andiekobbiets | +44 07480 261369

Professional Profile

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

Research Validation: An Inestimable Asset

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

- Key participant in Dr Annavittoria 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

"Afro-European" & "Afro-Italian" Identity Codification

- 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 that anchors this term in lived experience
- This proves **algorithmic visibility can be reshaped** by ethically constrained data environments—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
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Experience

Founding Technical Architect | FirstGens CIC | 2019 – Present (6 years)

- **Ambassador from founding (2019)**, progressing to Advisory Board Member
- Secured **£46,000+ in external funding**: £2,500 GirlDreamer/Mettle grant, £18,500 digitization grant, contributed to £25,000 2024 FEA Innovation 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 | Nyfasi | 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)
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Algorithm & Technical Projects

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)
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Education

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)
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SFIA Skills Matrix (Level 4–6)

Category	Skills	Level
Strategy & Architecture	Innovation, Strategic Planning	4–5
Change & Transformation	Product Management, Benefits Management	5
Development & Implementation	UX Design, Software Design, Testing	4–5
Delivery & Operations	User Support (23,000+ users), IT Infrastructure	4
People & Skills	Learning Delivery, Learning Management	5
Relationships & Engagement	Stakeholder Management, Business Analysis	5–6
Data & Digital	Data Analysis, Digital Accessibility	4

Technical Skills

Cloud & Microsoft	Security & Compliance	Development	AI & Data
Azure Active Directory	Wazuh SIEM	Python/RAG	LangChain
Microsoft 365 Admin	ISO/IEC 27001	React/TypeScript	ElevenLabs
SharePoint/Teams	GDPR Compliance	HTML/CSS/JavaScript	NotebookLM
Conditional Access	MFA Implementation	Omeka S / Git	Lovable.dev

Languages

English (Native) | Italian (Native)

References

- **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