



# universidad intergeneracional

**Hace constar que:**

***Kelly Lorena Carmona Herrera***

***Cédula de ciudadanía 1053772317***

Ha culminado satisfactoriamente el curso

## **Inteligencia Artificial: herramientas para la vida cotidiana**

Del programa Universidad Intergeneracional de la Universidad de Caldas.

Se expide la presente constancia  
en Manizales, a los 22 días del mes de mayo de 2026.

Fabio Hernando Arias Orozco  
Rector de la Universidad  
de Caldas

Darío Arenas Villegas  
Vicerrector de Proyección  
Universitaria



# Authenticity Verification

Blockchain-verifiable digital document

## DOCUMENT INFORMATION

Student	Kelly Lorena Carmona Herrera
Course / Program	Inteligencia Artificial: herramientas para la vida cotidiana - Estudiantes
Institution	Universidad de Caldas
Date of issuance	May 25, 2026
Certificate code	LC - 2026 - 54550



Scan the QR code or visit the URL to verify

<https://sparlum.ucaldas.edu.co/verificar?id=e1540122-1f32-44c3-a305-5ac800e5a45a>

## DOCUMENT INTEGRITY

Document number	AA4C7DF830
Hash Algorithm	SHA-256

Document hash:

e853fcb7fec71b1c96013ca1ac6cbb8d3a123a9a824651470a87f04cde9ec9a

## BLOCKCHAIN RECORD

Registered on CyberChain

Network	CyberChain Salamanca
Token type	Soulbound Token (SBT) - Non-transferable
Cryptographic signature	Dual ECDSA + ML-DSA (post-quantum)

Transaction hash:

0x718a87c4ba6ff454304a6da8bac9d48995ce7d3acea58380028651ce870b05c9

## AUTHENTICATED SIGNATORIES

Each signature was verified with a unique one-time OTP code and is permanently recorded on the CyberChain blockchain network.

**DA** Darío Arenas Villegas  
Vicerrector de Proyección Universitaria

Signed on May 20, 2026 ✓ Signature verified on blockchain

Signature transaction hash:

0x696b017cf0a0014d0fc6bbb5ffe3625da77814bb5461bcfbd63b4563bf3d5e79

Verify on CyberChain Salamanca:

<https://cyberchain.bisite.es/transactions/0x696b017cf0a0014d0fc6bbb5ffe3625da77814bb5461bcfbd63b4563bf3d5e79>



Scan to verify the signature on blockchain

**FH** Fabio Hernando Arias Orozco  
Rector de la Universidad de Caldas

Signed on May 20, 2026 ✓ Signature verified on blockchain

Signature transaction hash:

0x2f2ce89a1716658285e79d4f68af41261da422d788729cd146dfa9e52fc341f4

Verify on CyberChain Salamanca:

<https://cyberchain.bisite.es/transactions/0x2f2ce89a1716658285e79d4f68af41261da422d788729cd146dfa9e52fc341f4>



Scan to verify the signature on blockchain

## SECURITY TECHNOLOGY

- Encryption  
**AES-256-GCM**
- Digital Signature  
**ECDSA + ML-DSA-65**
- Blockchain  
**CyberChain (EVM Compatible)**

## PERMANENT VERIFICATION

- Online verification  
**Available 24/7**
- QR Code  
**Instant verification**
- Learning Passport  
**Cumulative credentials**