

# Ángel Arróspide Marco

Computer Engineer — Applied AI & Machine Learning for Cybersecurity

angel@arrospide.dev | linkedin.com/in/angelarrospide | github.com/Angel-Arrospide | angel.arrospide.dev

## FOCUS AREAS

Applied ML • Deep Unsupervised Learning • Anomaly Detection • Edge & TinyML • Industrial Cybersecurity • IoT • AI Safety

## SKILLS

### ML & Deep Learning

PyTorch, Scikit-Learn, NumPy, Pandas, spaCy.

### Programming Languages

Python, C/C++, Java, SQL, Bash.

### Systems & MLOps

Linux, Docker, Git, GitHub, Proxmox.

### Security & Red-Teaming

Nmap, Wireshark, Metasploit, Burp Suite, Autopsy.

### Governance & Standards

IEC 62443 (OT), NIS2, ISO 27000, ENS (Spain).

## LANGUAGES

**Spanish** — Native

**English** — C1 Advanced (Cambridge)

## TALKS & CONFERENCES

**Hack&Beers** — Invited Speaker

*AI to Detect the Threats Firewalls Ignore*  
May 2026

**C1b3rWall Congress** — Attendee

2024 – 2026

## CERTIFICATIONS

- Hack The Box CPTS (*in progress*)
- Cisco CCST Cybersecurity
- NIS2 Regulatory Compliance (INCIBE)
- Cybersecurity in Logistics & Transport (Spanish Min. of Transport)

## VOLUNTEERING

**Peer Mentor** — EPI Gijón, Univ. of Oviedo

Onboarding incoming first-year students into the Computer Engineering (IT) track.  
2024 – 2026

## INTERESTS

Hack The Box / home-labbing / chess / running / gym / fintech / startups / VC

## OBJECTIVE

Seeking a research or engineering role in applied machine learning. My work to date is ML applied to cybersecurity: unsupervised intrusion detection for industrial IoT under class imbalance, distribution shift, and hard latency and privacy constraints on edge hardware. I am now going deeper into deep learning architectures and AI safety, sharpening the tools I bring to that work.

## EDUCATION

**Universidad Carlos III de Madrid (UC3M)**

Madrid, Spain

*Double MSc in Computer Science & Cybersecurity — 138 ECTS* Sep 2026 – Jun 2028

- Incoming master's student starting in September 2026.

**EPI Gijón — University of Oviedo**

Asturias, Spain

*Bilingual BSc in Computer Engineering (IT) — 240 ECTS*

Sep 2022 – Jun 2026

- Rank:** 2nd of 48 graduates (**GPA:** 8.52/10; program average: 7.03/10)
- Bachelor's Thesis:** ML-based NIDS for Industrial IoT. Graded 10/10.

Keywords: unsupervised anomaly detection, class imbalance, edge deployment.

## ADDITIONAL COURSEWORK

**Johns Hopkins University**

Online

*AI for Cybersecurity*

Apr 2026 – Present

**Lady Margaret Hall — University of Oxford**

Oxford, UK

*Generative AI and Deep Unsupervised Learning, 7.5 ECTS (Grade: A+)*

Jul 2026

Lead lecturer: Prof. Naeemullah Khan, KAUST. Seminars: Marek Masiak, University of Oxford.

**Lady Margaret Hall — University of Oxford**

Oxford, UK

*AI and Machine Learning: Theory and Practice, 7.5 ECTS (Grade: A+)*

Aug 2025

Lead lecturer: Prof. Naeemullah Khan, KAUST. Seminars: Ana Deligny, University of Oxford.

**Stanford School of Engineering**

Online

*Advanced Cybersecurity Program*

Feb 2026 – Present

**INCIBE Chair — University of Oviedo**

Asturias, Spain

*Grad. Cert. in Offensive Cybersecurity, 16 ECTS (GPA 9.7/10)*

Oct 2025 – Apr 2026

## EXPERIENCE

**ICOM Research Group — University of Oviedo**

Asturias, Spain

*Funded Undergraduate Research Fellow / Bachelor's Thesis*

Nov 2025 – Jul 2026

- Designed an **unsupervised anomaly detector** for IIoT intrusion detection, trained only on normal traffic so that unseen zero-day attacks surface as deviations in sliding-window traffic statistics — no attack labels required.
- Reached **98.6% precision and 95.0% recall**, and ran inference on a Raspberry Pi 4 (8 GB) at **3M packets/s**, showing that high-speed, label-free detection is viable on commodity hardware.
- Funded by the Spanish Ministry of Education Collaboration Grant.

**Castroalonso**

Asturias, Spain

*IT Department Intern*

May 2024 – Oct 2024

- Built an **NLP pipeline** (Python, spaCy) that ingested and classified the official Spanish public-tender bulletin, replacing manual screening with automated relevance filtering over a live document stream.

## AWARDS & GRANTS

- Best Prediction Award** — Merkle Dathlon 2026.
- Collaboration Grant 2025** — Spanish Ministry of Education (early-career research).
- José Riera Award 2025** — Best academic record, Computer Engineering (IT).
- Masaveu Peterson Foundation Scholarship** — Academic excellence (2024–2026).
- Best Technical Solution Award** — Merkle Dathlon 2025.