ALEXANDER MASCOLO

🌐 https://amascolo.github.io ✉ alexander.mascolo@gmail.com

PROFILE	Strong coding and analytical skills · 10+ years in academia, trading desks, and startups.	

CURRENT ROLE

Senior Research Engineer — 2025 – present
Blok Intelligence Inc. — SAN FRANCISCO 🇺🇸

- Building agentic systems alongside behavioral scientists.
- Raised $7.5M to accelerate software testing (🅣🅒 TechCrunch).

RESEARCH

MSc (by Research) Computer Science — 2024 – 2025
University of Edinburgh — EDINBURGH 🇬🇧

- Fully funded, systems research on compilers for data science.
- Open-sourced a query engine with code generation (⊘ sdql).

PREVIOUS ROLES

Research Engineer — 2021 – 2023
Tably — LONDON 🇬🇧

- Applied R&D for large-scale distributed stream processing.
- Implemented conflict-free replicated data types (⊘ otto).

Software Engineer — 2019 – 2020
Gyana — LONDON 🇬🇧

- Greenfield development of high-performance analytics libraries.
- Raised $3.9M to democratize data science (🅣🅒 TechCrunch).

Quantitative Developer — 2015 – 2019
Macquarie Group — LONDON 🇬🇧

- Responsible for live strategies and the backtesting engine.
- Desk role in Quantitative Investment Strategies (◉ QIS).
- Hired after off-cycle internship in Options Market Making.

EDUCATION

BSc (Honors) Computer Science — 2011 – 2015
Australian National University — CANBERRA 🇦🇺

- Thesis on theoretical computer science and microeconomics.
- National Merit Scholarship (top 0.35%), prize winner (🎓 ANU).
- Taught classes on logic, formal methods, information theory.

Summer School in Logic and Formal Epistemology — 2013
Carnegie Mellon University — PITTSBURGH 🇺🇸

- Fully funded, seminars on statistical machine learning.

CODING

Python ●●●●◑ · Rust ●●●○○ · Scala ●●○○○ · C++ ●○○○○

CITIZENSHIP

🇦🇺 Australian 🇬🇧 British 🇮🇹 Italian · 🇺🇸 US E-3 visa holder · 📍 based in San Francisco.