

Axel U. J. Lode

DeFi, Oracles, Data Specialist

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Mindset -

- Ownership
- Scientific Rigor
- ✓ Data-Driven Decisions

Leadership -

- * Stakeholder Expectation Management
- Technical Product Management
- Coaching & Mentoring
- **55** Communication

Programming -

- ⟨→ Go, C, Rust / Anchor, Fortran
- Js TypeScript, Solidity
- * Python, Bash

Infrastructure -

- Linux, Containers, Virtualization
- GCP, Azure, Orchestration
- 🚍 Ansible, gitOps, IAC
- Observability, Monitoring

Professional Summary

Ex-Quantum Scientist Yock for Data, Blockchain, Infrastructure

- Spiced with two decades of scientific research experience
- Excels in highly available blockchain infrastructure
- Breathes data science, quantitative finance, AI/ML & quantum Physics

- Drives 2000+ on-chain data feeds (zero-day Chainlink and Tier-1 Pyth oracle)

- Cherishes integrity and truth secured by (blockchain) technology

Professional Experience

01/2023 -Present

Head of Decentralized Finance

Blocksize Capital GmbH

- Architected highly-availabile hybrid cloud (GCP K8s) & baremetal infrastructure supporting oracle networks like Chainlink & Pyth
- Infrastructure automations (Ansible) for 20+ baremetal servers on 10+ protocols
- Implementation of observability (Kube-prometheus-stack) and on-
- Refinement of data anomaly detection for algorithmic price feed accuracy

03/2022 -12/2022

Lead Quantitative Developer

Blocksize Capital GmbH

- Data product stakeholder management and requirements engineering • Refined backend software development and release pro-
- Design and development of anomaly filter algorithms, readving the data origination in Pyth's and Chainlink's oracles

09/2021 -03/2022

AI Researcher

Lehner Investments

- Machine learning for automated investments backed by price and sentiment data
- Design of ETL pipelines and feature engineering for real-time processing of data streams

Speaking Engagements

05/2025	Deloitte FinTech Day
10/2024	Chainlink SmartCon
09/2023	Chainlink SmartCon
07/2023	DeFi Talents Workshop Organizer
11/2022	DeFi Talents Guest Speaker
06/2022	ETH Frankfurt Meetup
05/2022	DeFi Talents Guest Speaker
05/2022	HBI Forum Hamburg

Selected Projects / Hackathons

2025 micaEur (Solana Token2022) Solana Breakout Hackathon Scope: MiCA-compliant stablecoin prototype featuring on-chain

KYC/AML oracles, freeze/seize controls, and proof-of-reserves.

Code: github.com/BSC-aujl/micaEur

2023 RaCoTo (ReFi token) Chainlink Hackathon

Scope: Trust-minimized rainforest conservation system using satel-

lite imagery and oracle attestations.

Recognized in: Chainlink Spring 23 Hackathon, Chainlink Constellation Hackathon 23

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Blockchain -

- Oracles:
 - ✓ Chainlink, Pyth, Band
 - ✓ API3, Tellor, Supra
 - **✓** Space and Time
- Validators:
 - ✓ Solana, Pyth, Supra, Band, Polygon
- RPCs:
 - ✓ Ethereum, ZK-Sync Era
 - ✓ Solana, Avalanche
 - **✓** Polygon

Academic Metrics —

• h-index: 30

• Citations: 2000+

• Publications: 50+

• Projects: 15+

Repositories

- G github.com/BSC-aujl
- github.com/aujl
- ♦ UNIQORN Project

Awards & Grants -

- Austrian Science Fund Grant (€390k)
- HPC Resources Grant (€100k/year 2019 – 2022)
- Springer Thesis Award (2013)
- of Dr. S. Bernthsen Prize (2009)

Languages -

- German (native)
- English (professional)
- French (basic), Russian (elementary)

Academic Experience

PostDoc

2019 - 2022

Junior Research Group Leader

University of Freiburg

- Machine learning and statistics approaches for optimally using observations of complex quantum systems
- Managed €100k/year of high-performance computating resources
- Deployed €390k research grant
- Teaching and mentoring M.Sc. and Ph.D. students & their theses

2017 - 2019

Principal Investigator University & Technical University of Vienna

- Research applying state of the art applied math and theoretical physics to understand experimental observations
- Deployed €100k/year of high-performance computating resources
- • Attracted €390k research grant for investigating machine learning for quantum information readout
- Teaching and mentoring B.Sc. and M.Sc. students & their theses

2013 - 2017

University of Basel

- Development and applications of novel numerical methods for condensed matter systems
- Collaborations with many internationally recognized experimental and theoretical physicists that used or contributed to the developed software

Education

2009 - 2013

Ph.D. in Physics

Ruprecht-Karls-Univ. Heidelberg

- \bullet Magna cum laude (1.0), recognized with the Springer Thesis Award for outstanding thesis
- Developed and distributed software for deploying highperformance computing for quantum systems
- Computed first-ever numerically exact simulations for interacting quantum particles

2002 - 2009

Physics Diploma (M.Sc. equiv.) Ruprecht-Karls-Univ. Heidelberg

- Recognized with the Dr. S. Bernthsen Prize for outstanding thesis
- Application of quantum chemistry methods to model ultracold quantum systems.