



Axel U. J. Lode

DeFi, Oracles, Data Specialist

- Schallstadt/Freiburg, Germany
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Mindset

- Ownership
- Scientific Rigor
- Data-Driven Decisions

Leadership

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

Programming

- Go, C, Rust / Anchor, Fortran
- 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
- Cherishes integrity and truth secured by (blockchain) technology
- Drives 2000+ on-chain data feeds (zero-day Chainlink and Tier-1 Pyth oracle)

Professional Experience

01/2023 – Present	Head of Decentralized Finance • Architected highly-available 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-call-rotation • Refinement of data anomaly detection for algorithmic price feed accuracy	Blocksize Capital GmbH
03/2022 – 12/2022	Lead Quantitative Developer • Data product stakeholder management and requirements engineering • Refined backend software development and release processes • Design and development of anomaly filter algorithms, readying the data origination in Pyth's and Chainlink's oracles	Blocksize Capital GmbH
09/2021 – 03/2022	AI Researcher • 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	Lehner Investments

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) Scope: MiCA-compliant stablecoin prototype featuring on-chain KYC/AML oracles, freeze/seize controls, and proof-of-reserves. Code: github.com/BSC-auj/micaEur	Solana Breakout Hackathon
2023	RaCoTo (ReFi token) Scope: Trust-minimized rainforest conservation system using satellite imagery and oracle attestations. Recognized in: Chainlink Spring 23 Hackathon, Chainlink Constellation Hackathon 23	Chainlink Hackathon

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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

-  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)
-  Dr. S. Bernthsen Prize (2009)

Languages

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

Academic Experience

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|-------------|---|--|
| 2019 – 2022 | Junior Research Group Leader University of Freiburg | <ul style="list-style-type: none">• Machine learning and statistics approaches for optimally using observations of complex quantum systems• Managed €100k/year of high-performance computing 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 | <ul style="list-style-type: none">• Research applying state of the art applied math and theoretical physics to understand experimental observations• Deployed €100k/year of high-performance computing 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 | PostDoc University of Basel | <ul style="list-style-type: none">• 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

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|-------------|---|---|
| 2009 – 2013 | Ph.D. in Physics Ruprecht-Karls-Univ. Heidelberg | <ul style="list-style-type: none">• Magna cum laude (1.0), recognized with the Springer Thesis Award for outstanding thesis• Developed and distributed software for deploying high-performance 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 | <ul style="list-style-type: none">• Recognized with the Dr. S. Bernthsen Prize for outstanding thesis• Application of quantum chemistry methods to model ultracold quantum systems. |