

CV Giulio Caldarelli

Scholar profile: <https://scholar.google.com/citations?user=gpQw0okAAAAJ&hl=en>

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Personal statement

Lecturer and Researcher focused on investigating blockchain oracles and the oracle problem in real-world blockchains.

Preferred paper type: Qualitative research, Case Study; Systematic literature reviews, Systemization of knowledge.

Education and qualifications

PH.D. IN ECONOMICS AND MANAGEMENT, UNIVERSITY OF VERONA (ITALY)

- Language of lectures and thesis: English
- Thesis title: Beyond Oracles – A Critical Look at real-world Blockchains.
- Participation in workshops, conferences, and summits concerning blockchain applications.
- Visiting Ph.D. at the University of Malta to improve personal knowledge of Cryptocurrencies and Distributed Ledger Technologies. Academic Year 2020/2021 (9 months)
- Elected as Ph.D. Representative
- Made extra courses and exams concerning Blockchain, Decentralized Finance, and FinTech remotely at: Hong Kong University, University of Nicosia, and Saxion University of Applied Sciences.
- Ph.D. Program Cycle XXXIV: 2018/2021

POST LAUREAM MASTER MA732 (BUSINESS & LAW) E-UNIVERSITY PEGASO (ITALY)

- Master MA-732 *“Business & Law: New teaching techniques, strategic approach, and models”*.
- Duration (Hours) 1500
- Credits (ECTS) 60
- Exam date 15/06/2018
- Final Mark 28/30

MASTER DEGREE LM-77 (MANAGEMENT) UNIVERSITY OF SIENA (ITALY)

- Thesis in Economic Globalisation about *“The protection of Intellectual property rights according to TRIPs agreement.”*
- Erasmus of eleven months at the University of La Laguna (Tenerife)
- Graduation mark: 106/110
- Graduation day: 17/04/2013

BACHELOR DEGREE L-17 (MANAGEMENT) UNIVERSITY OF NAPLES S.U.N. (ITALY)

- Thesis in English about *“U.S. Import and Export Markets: New Trends and Opportunities”*
- Graduation day: 15 July 2010

Publications

- Caldarelli, G. Before Ethereum. The origin and evolution of Blockchain Oracles. IEEE Access, 2023, Vol. 11.

- Caldarelli, G. From Reality Keys to Oraclize. A deep dive into the history of Bitcoin oracles. **2023**, <https://doi.org/10.48550/arXiv.2302.07911>.
- Caldarelli, G. *Overview of Blockchain Oracle Research*. *Futur. Internet* **2022**, 14, 175, doi:10.3390/fi14060175.
- Caldarelli, G. Formalizing Oracle Trust Models for blockchain-based business applications. An example from the supply chain sector. **2022**, doi:10.48550/arxiv.2202.13930.
- Caldarelli, G. *Wrapping Trust for Interoperability: A Preliminary Study of Wrapped Tokens*. *Inf.* **2022**, Vol. 13, Page 6 2021, 13, 6, doi:10.3390/INFO13010006.
- Caldarelli, G.; Ellul, J. The Blockchain Oracle Problem in Decentralized Finance—A Multivocal Approach. *Appl. Sci.* **2021**, 11, 7572.
- Caldarelli, G. “Blockchain Oracles and the Oracle Problem: A practical handbook to discover the world of blockchain, smart contracts, and oracles —exploring the limits of trust decentralization”. **2021**, ISBN: 9791220083386 1, 166
- Caldarelli, G.; Ellul, J. Trusted Academic Transcripts on the Blockchain: A Systematic Literature Review. *Appl. Sci.* **2021**, 11, 1842.
- Caldarelli G., Zardini A., Rossignoli C. “Blockchain adoption in the fashion sustainable supply chain: Pragmatically addressing barriers”. *Journal of Organizational Change Management*. **2021**, Vol. 34 No. 2, pp. 507-524
- Caldarelli, G. Understanding the Blockchain Oracle Problem: A Call for Action. *Information* **2020**, 11, 509.
- Caldarelli G. “Real-world blockchain applications under the lens of the oracle problem. A systematic literature review”. *International Conference on Technology Management, Operations and Decisions*. November **2020**, Marrakech, Morocco.
- Caldarelli G. “Exploiting corporate governance to evaluate blockchain applications. A comprehensive framework”. *International Journal of Economics and Business Administration*, **2020**, Vol 8, 3 (*accepted*)
- Caldarelli G. “The Business Model. From Taxonomy to Modularity”. *Journal of International Business and Economics*, **2020**, Vol 20, 2
- Caldarelli, G.; Rossignoli, C.; Zardini, A. “Overcoming the Blockchain Oracle Problem in the Traceability of Non-Fungible Products.” *Sustainability* **2020**, 12, 2391.
- Caldarelli G. “*The intricate origin of the TRIPs Agreement – Between History and Critics*”, GIAPETO, **2018**, Napoli - ISBN 978-88-9326-208-8

Seminars, Conferences, and Workshops

- Presented the paper: “Oracle trust models for blockchain-based applications. An early standardization”. IEEE ICTMOD 2023 22-24 November 2023, Rabat, Morocco (Conference)
- Speaker and moderator for the Hashi Roundtable at Devconnect 2023, 13-19, November, 2023, Istanbul, Turkey.
- Chairman at: Blockchain Oracle Summit (BOS22), 7-9 June 2022, Berlin, Germany. (Workshop)
- Presented the paper: “Wrapping trust for interoperability. A preliminary study of wrapped tokens” at the University of Santa Barbara, California. 22/April/2022. (Seminar)
- Presented the paper: “Real-World Blockchain Applications under the lens of the oracle problem. A Systematic Literature Review”. IEEE ICTMOD 2020 24-27 November 2020, Marrakech, Morocco. (Conference)
- Served as Session Chair at: IEEE Cryptomatics 2020, November 2-6 2020, Rhodes Island, Greece (Conference).

- Presented the paper: “Improving organizational effectiveness through blockchain technology adoption”. WOA 2020, Workshop of Business Organization. January 6-7 2020, Milan, Italy. (Workshop)
- Presented the paper: “The Business Model. From Taxonomy to Modularity”. IABE, International Academy of Business and Economics, Nuremberg, June 18-19 2020 (Conference)

Editing and review activity for scientific production

- Guest Editor for the Journal Electronics (ISSN 2079-9292). Special Issue: Blockchain Oracles and the Oracle Problem (2022-2023).
- Peer-Review activity for journals such as: IEEE Wireless Communications Letters (IF 5.28 IEEE), Technological Forecasting and Social Change (IF 10.88 Elsevier), Information Systems Management (IF 3.88 Taylor & Francis), Sustainability (IF 3.88 MDPI), and many more.

Research awards and Grants

- Awarded with “Best Reviewer Gold Award” at IEEE ICTMOD 2021
- Awarded with Unicredit Foundation Scholarship (Fondo Emma Ganesini) in the field of Economics. 16th December 2019.

Work Experience

ASSISTANT PROFESSOR (RTD/A) | UNIVERSITY OF TURIN (ITALY) 2023-2026 (ONGOING)

- Research financed by the PNRR funds on the GRINS project, Spoke 1, WP 4.
- Lecturer of the module “Financial Accounting” for the Business and Management course. Language of lectures: English.

TEACHER | I.T.C.S. LORGNA-PINDEMONTI | 2021-2022

- Teaching Business Administration to the High School students (1° & 4° AFM&Tourism).

TEACHER | I.I.S. LEONARDO DA VINCI | 2016-2018

- Teaching Management and Finance to the High School students (3°4°5° AFM). Reworking and digitalization of the study materials utilizing clouds, spreadsheets, and financial software. Attendance to the examination of competence and high school exams. Elected for the CLIL project to teach part of the study plan in English.

JOB MANAGER | A.D.H.R. | 2015

- Research of new clients and support to the recruiting team for IT and Tourism sector. Managing training courses and hiring procedures. Developing IT structures to support and speed up the activities and administrative procedures.

VENUE MANAGER | UNIVERSITY OF BRISTOL (ENGINE SHED) | 2014

- Assistance with setting up and running events for external and internal clients (Institute of Directors, Invest in Bristol and Bath, etc.)
Managing the Conference rooms and doing research on advanced AV equipment.
Creation of Business Incubator Newsletter and production of guides for conference AV equipment

SAIL INSTRUCTOR | VALTUR| 2006-2011

- Assisting the coordinator of the sailing school in managing the team, and the courses
Managing the materials and the maintenance of the boats
Administration of the employee contracts
Assisting the team with the tournament's organization of various disciplines (Beach volley, archery, kayak, etc.)