

Personal Information

**Anna Vacca**

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Education And Work Experience

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- 07/2024 - now **RTDA at the Department of Law and Digital Society of UnitelmaSapienza in Rome**  
Università degli Studi di Roma UnitelmaSapienza (Italy)
- 03/2024 – 06/2024 **Research Associate, project "F-MOBILITY: Towards Full Electric Vehicles at Minimum Vde: A New Real World Based Approach"**  
CeRICT srl, BENEVENTO (Italy)
- 01/2023–12/2023 **Scholarship for research activities within the project called "ISBAV-Implementation of a blockchain system to protect the wine sector";**  
UNIVERSITY OF SANNIO, BENEVENTO (Italy)
- 09/2021 – 02/2022 **Period abroad for the development of a research activity for "A quality model for the development of smart contracts".**  
UNIVERSIDAD DE CASTILLA-LA MANCHA (SPAIN)
- 02/2021 – 07/2021 **Period in the company for the "ISO/TC e TR analysis on blockchain and smart contracts"**  
BIT4ID S.R.L. (NAPOLI) (Italy)
- 03/2019–02/2023 **PhD in Information Technologies for Engineering presenting a thesis entitled: : "Investigating the software quality of smart contracts"**  
UNIVERSITY OF SANNIO, BENEVENTO (Italy)
- 03/2018–02/2019 **Scholarship for the development of research activities entitled "Platform for the protection of corporate data" - SDD ING-INF/05 "Information processing systems"**  
UNIVERSITY OF SANNIO, BENEVENTO (Italy)
- 2017 **MASTER DEGREE IN COMPUTER ENGINEERING presenting a thesis entitled: "A Metrics-Based Approach for the Measurement of Documentation Quality"**  
UNIVERSITY OF SANNIO, BENEVENTO (Italy)

Personal skills

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Mother tongue Italian

other languages English

Publications

1. Vacca, A., Di Sorbo, A., Visaggio, C. A., Canfora, G. (2021). A systematic literature review of blockchain and smart contract development: Techniques, tools, and open challenges. *Journal of Systems and Software*, 174, 110891.
2. Canfora, G., Di Sorbo, A., Fredella, M., Vacca, A., Visaggio, C. A. (2021, September). iSCREAM: a suite for Smart Contract REAdability assessMent. In 2021 IEEE International Conference on Software Maintenance and Evolution (ICSME) (pp. 579-583). IEEE.
3. Di Sorbo, A., Laudanna, S., Vacca, A., Visaggio, C. A., Canfora, G. (2022). Profiling gas consumption in solidity smart contracts. *Journal of Systems and Software*, 186, 111193.
4. Vacca, A., Fredella, M., Di Sorbo, A., Visaggio, C. A., Canfora, G. (2022, May). An Empirical Investigation on the Trade-off between Smart Contract Readability and Gas Consumption. In 2022 IEEE/ACM 30th International Conference on Program Comprehension (ICPC) (pp. 214-224). IEEE
5. Vacca, A., Fredella, M., Di Sorbo, A., Visaggio, C. A., & Piattini, M. (2023). Functional suitability assessment of smart contracts: A survey and first proposal. *Journal of Software: Evolution and Process*, e2636.