

Samuel Lucas de Moura Ferino

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PROFESSIONAL EXPERIENCE

Since August/2021 **RESEARCHER** [PDF Online], *Federal University of Rio Grande do Norte, Brazil*

Works on the Research and Development (R&D) project called ***Intelligent Network Management for 5G - iNMS 5G***. This is an R&D project of the Digital Metropole Institute of the Federal University of Rio Grande do Norte, funded by LENOVO DO BRASIL S/A.

– ***Leading a small team in microservice integration tasks***

– ***Supporting junior developers***: pair programming and code review

– ***End-to-end system design***: sequence diagrams and UML diagrams

– ***Backend development***: Python/Flask/Pipenv, RabbitMQ, MySQL, pytest/unittest, Docker/Docker-compose, Java/Dropwizard/JUnit 5, Make, Grafana, Prometheus, SonarLint, Kubernetes, Openstack, Vagrant

– ***Infrastructure provision***: Openstack, Kubernetes, Docker/Docker-compose, Helm Charts, Ansible, Vagrant, Shellscript/Bashscript, Linux - Centos & Ubuntu 18.04/20.04/22.04

– ***Implementation of CI/CD practices***: GitLab-CI, SonarQube, Docker, including GitLab Containers (& Packager) Registry

EDUCATION

2024–2027 Doctor of Philosophy in Information Technology, *Monash University, Australia*

Main Supervisor: Professor Rashina Hoda

Co-Supervisor: Professor John Grundy

Co-Supervisor: Associate Professor Christoph Treude

2021–2023 Masters in Systems and Computation, *Federal University of Rio Grande do Norte, Brazil*

Supervisor: Professor Uirá Kulesza

Master Thesis: *Unveiling the Teaching Methods Adopted in DevOps Courses*

[PDF Online]

[Academic Transcription & Certificate - PDF Online]

2016–2021 Bachelor in Information Technology, *Federal University of Rio Grande do Norte, Brazil*

[Academic Transcription & Certificate - PDF Online]

PUBLICATIONS

- 2025 **Samuel Ferino**, Rashina Hoda, John Grundy, and Christoph Treude. Junior Software Developers' Perspectives on Adopting LLMs for Software Engineering: a Systematic Literature Review. *arXiv preprint arXiv:2503.07556*.
- 2023 **Samuel Ferino**, Marcelo Fernandes, Elder Cirilo, Lucas Agnez, Bruno Batista, Uirá Kulesza, Eduardo Aranha, and Christoph Treude. Overcoming Challenges in DevOps Education through Teaching Method. In *ICSE'23: Proceedings of the IEEE/ACM 45th International Conference on Software Engineering - SEET Track*. DOI: 10.1109/ICSE-SEET58685.2023.00022 (**JOURNAL RANKING: ERA A***)
- 2023 **Samuel Ferino** and Uirá Kulesza. Unveiling the Teaching Methods Adopted in DevOps Courses. In *SBQS'23: Proceedings of the 22nd Brazilian Symposium on Software Quality*. DOI: 10.1145/3629479.3629483
- 2023 Felipe S. Dantas Silva, Ayuri Bessa, Sérgio Silva, **Samuel Ferino**, Pablo Paiva, Marcos Medeiros, Lucas Silva, José Neto, Kevin Costa, Charles Santos, Douglas Maciel, Lucileide Silva, Anderson Inoue, Roger Immich, Eduardo Aranha, Allan Martins, Vicente Sousa, Uirá Kulesza, Marcelo Fernandes, Marcos Salvador, Guilherme Pupio, Ramon Fontes, Augusto Neto. Proactive ML-Assisted and Quality-Driven Slice Application Service Management to Keep QoE in 5G Mobile Networks. In *NFV-SDN'23: Proceedings of the IEEE Conference on Network Function Virtualization and Software Defined Networks*. DOI: 10.1109/NFV-SDN59219.2023.10329589
- 2023 **Samuel Ferino** and Uirá Kulesza. Unveiling the Teaching Methods Adopted in DevOps Courses. In *CBSOft'23: Companion Proceedings of the 14th Brazilian Conference on Software: Theory and Practice*. DOI: 10.5753/cbsoft_estendido.2023.233378
- 2022 Marcelo Fernandes, **Samuel Ferino**, Anny Fernandes, Uirá Kulesza, Eduardo Aranha, and Christoph Treude. DevOps education: an interview study of challenges and recommendations. In *ICSE'22: Proceedings of the IEEE/ACM 44th International Conference on Software Engineering - SEET Track*. DOI: 10.1145/3510456.3514152 (**JOURNAL RANKING: ERA A***)
- 2021 **Samuel Ferino**, Marcelo Fernandes, Anny Fernandes, Uirá Kulesza, Eduardo Aranha, and Christoph Treude. Analyzing DevOps Teaching Strategies: An Initial Study. In *SBES'21: Proceedings of the 35th Brazilian Symposium on Software Engineering - Insightful Ideas and Emerging Results Track*. DOI: 10.1145/3474624.3477071 (**Distinguished Paper Award**)
- 2020 Marcelo Fernandes, **Samuel Ferino**, Uirá Kulesza, and Eduardo Aranha. Challenges and Recommendations in DevOps Education: A Systematic Literature Review. In *SBES'20: Proceedings of the 34th Brazilian Symposium on Software Engineering - Education Track*. DOI: 10.1145/3422392.3422496

GRANTS AND AWARDS

- 2023 **1st Place Award** – Master's Degree Thesis Competition at the Brazilian Conference on Software: Theory and Practice (CBSOft) – **[PDF Online]**
- 2023 **1st Place Award** – Master's Degree Thesis Competition at the Brazilian Software Quality Symposium (SBQS) – **[PDF Online]**
- 2021 **Distinguished Paper Award** – Brazilian Symposium on Software Engineering – Insightful Ideas and Emerging Results (SBES) – **[PDF Online]**

Updated May 2025