Mauro Dalle Lucca Tosi

29 years old, Brazilian / Italian

Esch-sur-Alzette, Luxembourg

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PROFESSIONAL EXPERIENCE

Research Scientist, Luxembourg Institute of Science and Technology (LIST) **From 2024**

Activities: Low-modeling, Data Science, Machine Learning, Knowledge Graphs.
Supervisor: Dr. Jordi Cabot.

Doctoral Researcher, University of Luxembourg **2020 - 2024**

Activities: Researcher on Online Learning, Deep Learning, and Distributed Systems; Supervision of students.
Supervisor: Prof. Dr. Martin Theobald.

Intern, Hewlett-Packard E.S.. **2015 - 2015**

Activities: Job Rotation: Security, Database, Service Level Management, Web & Middleware, Messaging, Storage.
Supervisor: Wellington Fedrice.

Intern, Risk Office **2013 - 2014**

Activities: Java EE developer; Requirements Gathering from Risk Analysists.
Supervisor: Leandro Natale.

EDUCATION

❖ Ph.D., Computer Science, University of Luxembourg - Luxembourg **2020 - 2024**

❖ M.Sc., Computer Science, University of Campinas, Campinas, SP – Brazil **2018 - 2020**

❖ B.Sc., Computer Science, Centro Universitário FEI, São Bernardo do Campo, SP – Brazil **2013 - 2017**

❖ A.S., Computer Technician, ETEC Adolpho Berezin, Mongaguá, SP – Brazil **2011 - 2012**

COMPLEMENTARY EDUCATION

❖ Northern Lights Deep Learning Winter School (NLDL 2024), Tromsø – Norway **2024**

❖ First Italian School in Geometric Deep Learning (GeoDL2022), Pescara – Italy **2022**

❖ 4th International School on Deep Learning, Las Palmas de Gran Canaria – Spain **2021**

❖ Research Course in *Algorithms for Cloud Computing*, Illinois Institute of Technology, Chicago – USA **2016**

❖ B.Sc. Sandwich Degree in Computer Science, Georgia State University, Atlanta, GA – USA **2015**

HARD SKILLS	SOFT SKILLS	LANGUAGES
❖ **Python, C, C++, Java**	❖ **Effective communication**	❖ **Portuguese:** Native
❖ **TensorFlow / Keras**	❖ **Ability to learn**	❖ **English :** C1 (Fluent)
❖ **Distributed Computing / HPC**	❖ **Flexibility**	❖ **French :** B1
❖ **Machine Learning**	❖ **Intellectual Curiosity**	❖ **Spanish :** A2
❖ **SQL / NoSQL**	❖ **Time management**	

TEACHING EXPERIENCE

Teacher Assistant:

o University of Luxembourg, Bachelor of Computer Science - Information Management 3 (Winter 2020), Information Management 2 (Summer 2021, 2022, 2023, and 2024).

o University of Luxembourg, Master of Data Science - NoSQL & Cloud Computing (Winter 2021).

o University of Campinas, Bachelors: Algorithms and Computer Programming (Summer 2019), Human-Computer Interaction (Winter 2019).

o Centro Universitario FEI, Bachelor of Computer Science: Data Structure (Summer 2014).

RESEARCH EXPERIENCE

Big Data, Data Science, and Databases group - University of Luxembourg   **2020 - 2024**

Dissertation: Online Learning using Distributed Neural Networks.
Keyphrases: *Online Learning; Neural Networks; Asynchronous, Decentralized, and Distributed systems*.
Advisor: Prof. Dr. Martin Theobald.

Laboratory of Information Systems - University of Campinas.   **2018 - 2020**

Thesis: A Knowledge Graph Approach to Structure and Visualize the Evolution of a Learning Field Over Time.
Keyphrases: *Ontology; Complex Networks; Knowledge Graphs; Clustering; Data Mining; NLP.*
Advisor: Prof. Dr. Júlio Cesar dos Reis.

Laboratory of Innovation in Internet of Things - Centro Universitario da FEI   **2016 - 2017**

Scientific Initiation: A Complex Network Model for Research Lines Detection and Trends Analysis.
Keyphrases: *Complex Networks; Data Mining; NLP*.
Advisor: Prof. Dr. Guilherme Wachs Lopes.

Centro Universitario da FEI   **2016 - 2017**

Bachelor Dissertation: Hybrid model for word prediction using naive bayes and latent information.
Keyphrases: *Naive Bayes, Latent Semantic Analysis, Sentence Completion, Word Prediction.*
Advisor: Prof. Dr. Guilherme Wachs Lopes.

Research in Algorithms for Cloud Computing - *Illinois Institute of Technology*   **2016 - 2016**

Summer Course: *Measurement of LogP Parameters in Cloud Computing Environments.*
Keyphrases: *Cloud computing; LogP; Distributed Systems; Computational Complexity.*
Advisor: Prof. Dr. Eunice E. Santos; Co-advisors: Prof. Dr. John Korah, Dr. Vairavan Murugappan.

MOST RELEVANT PUBLICATIONS

❖ Tosi, MDL & dos Reis, J. C. (2022). Understanding the evolution of a scientific field by clustering and visualizing knowledge graphs. Journal of Information Science, 48(1), 71-89.

❖ Tosi, MDL & dos Reis, J. C. (2021). SciKGraph: A knowledge graph approach to structure a scientific field. Journal of Informetrics, 15(1), 101109.

❖ Tosi, Mauro DL, Vinu E. Venugopal, and Martin Theobald. "TensAIR: Real-Time Training of Neural Networks from Data-streams." Proceedings of the 2024 8th International Conference on Machine Learning and Soft Computing. 2024.

❖ Tosi, M.D.L., dos Reis, J.C. (2019). C-Rank: A Concept Linking Approach to Unsupervised Keyphrase Extraction. In: Garoufallou, E., Fallucchi, F., William De Luca, E. (eds) Metadata and Semantic Research. MTSR 2019. Communications in Computer and Information Science, vol 1057. Springer, Cham.