



Mauro Dalle Lucca Tosi

28 years old, Brazilian / Italian



Esch-sur-Alzette, Luxembourg



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PROFISSIONAL EXPERIENCE

- Research Engineer, Luxembourg Institute of Science and Technology (LIST)** **From 2024**
Activities: Low-modeling, Data Science, Machine Learning, Data Mining.
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 Analysts.
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

- ❖ Python, C, C++, Java
- ❖ TensorFlow / Keras
- ❖ Distributed Computing / HPC
- ❖ Machine Learning
- ❖ SQL / NoSQL

SOFT SKILLS

- ❖ Effective communication
- ❖ Ability to learn
- ❖ Flexibility
- ❖ Intellectual Curiosity
- ❖ Time management

LANGUAGES

- ❖ Portuguese : Native
- ❖ English : C1 (Fluent)
- ❖ French : B1
- ❖ Spanish : A2

TEACHING EXPERIENCE

Teacher Assistant:

- University of Luxembourg, Bachelor of Computer Science - Information Management 3 (Winter 2020), Information Management 2 (Summer 2021, 2022, 2023, and 2024).
- University of Luxembourg, Master of Data Science - NoSQL & Cloud Computing (Winter 2021).
- University of Campinas, Bachelors: Algorithms and Computer Programming (Summer 2019), Human-Computer Interaction (Winter 2019).
- 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

- ❖ Dalle Lucca Tosi, M., & 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, M. D. L., & dos Reis, J. C. (2021). SciKGraph: A knowledge graph approach to structure a scientific field. *Journal of Informetrics*, 15(1), 101109.
- ❖ Tosi, M. D. L., & Reis, J. C. D. (2021). Keyphrase extraction from single textual documents based on semantically defined background knowledge and co-occurrence graphs. *International Journal of Metadata, Semantics and Ontologies*, 15(2), 121-132.
- ❖ 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.