Curriculum Vitae

Personal Data

Name:	Saulo Martiello Mastelini
Nationality:	Brazil
Date of Birth:	15/02/1993
Place of Birth:	Cândido de Abreu, Brazil
email:	saulomastelini@gmail.com
Website:	https://smastelini.github.io/

Professional Experience

2020-2021	Teaching assistant in the Data Science MBA of the Institute of Mathematics and Computer Science - University of São Paulo

Education

02/2022-09/2022	Visiting researcher at **LIAAD (INESC TEC) and Faculdade de Economia da Universidade do Porto**, Porto, Portugal Supervisor: João Gama
06/2018-02/2023	PhD in Computer Science and Computational Mathematics, **University of São Paulo**, São Carlos, Brazil Supervisor: André Carlos P. L. F. de Carvalho
03/2016-02/2018	MSc in Computer Science, **State University of Londrina**, Londrina, Brazil Supervisor: Sylvio Barbon Jr.
2012-2016	BSc in Computer Science, **State University of Londrina**, Londrina, Brazil Supervisor: Sylvio Barbon Jr.

Scientific Production indicators

ORCID:	https://orcid.org/0000-0002-0092-3572
Google Scholar:	https://scholar.google.com.br/citations?hl=en&user=eBtNmMEAAAAJ
ResearchGate:	https://www.researchgate.net/profile/Saulo_Mastelini
h-index:	14
Total citations:	613

Language Skills

English:	Advanced
Portuguese:	Native
Spanish:	Basic

Recent Relevant Publications

Articles published in journals:

- Mastelini, S. M., Nakano, F. K., Vens, C., & de Leon Ferreira, A. C. P. (2022). Online Extra Trees Regressor. *IEEE Transactions on Neural Networks and Learning Systems*.
- Mastelini, S. M., Cassar, D. R., Alcobaça, E., Botari, T., de Carvalho, A. C., & Zanotto, E. D. (2022). Machine learning unveils composition-property relationships in chalcogenide glasses. *Acta Materialia*, 240, 118302.

- Cassar, D. R., Mastelini, S. M., Botari, T., Alcobaça, E., de Carvalho, A. C., & Zanotto, E. D. (2021). Predicting and interpreting oxide glass properties by machine learning using large datasets. *Ceramics International, 47*(17), 23958-23972.
- Mastelini, S. M., Cassar, D. R., Alcobaça, E., Botari, T., de Carvalho, A. C., & Zanotto, E. D. (2021). Machine learning unveils composition-property relationships in chalcogenide glasses. *arXiv preprint arXiv:2106.07749*.
- Mastelini, S. M., & de Leon Ferreira, A. C. P. (2021). Using dynamical quantization to perform split attempts in online tree regressors. *Pattern Recognition Letters, 145*, 37-42.
- Montiel, J., Halford, M., Mastelini, S. M., Bolmier, G., Sourty, R., Vaysse, R., ... & Bifet, A. (2021). River: machine learning for streaming data in Python. *Journal of Machine Learning Research, 22*, 1-8.
- Mastelini, S. M., Santana, E. J., Cerri, R., & Barbon Jr, S. (2020). DSTARS: a multi-target deep structure for tracking asynchronous regressor stacking. *Applied Soft Computing, 91*, 106215.
- Alcobaca, E., Mastelini, S. M., Botari, T., Pimentel, B. A., Cassar, D. R., de Leon Ferreira, A. C. P., & Zanotto, E. D. (2020). Explainable machine learning algorithms for predicting glass transition temperatures. *Acta Materialia, 188*, 92-100.
- Mastelini, S. M., Sasso, M. G. A., Campos, G. F. C., Schmiele, M., Clerici, M. T. P. S., Barbin, D. F., & Barbon, S. (2018). Computer vision system for characterization of pasta (noodle) composition. Journal of Electronic Imaging, 27(5), 053021.
- Santana, E. J., Geronimo, B. C., Mastelini, S. M., Carvalho, R. H., Barbin, D. F., Ida, E. I., & Barbon, S. (2018). Predicting poultry meat characteristics using an enhanced multi-target regression method. Biosystems engineering, 171, 193-204.

Articles published in conferences:

- Mastelini, S. M., Montiel, J., Gomes, H. M., Bifet, A., Pfahringer, B., & de Carvalho, A. C. (2021, December). Fast and lightweight binary and multi-branch Hoeffding Tree Regressors. In *2021 International Conference on Data Mining Workshops (ICDMW)* (pp. 380-388). IEEE.
- Mastelini, S. M., & Ponce de Leon Ferreira de Carvalho, A. C. (2020, October). 2CS: correlation-guided split candidate selection in Hoeffding tree regressors. In *Brazilian Conference on Intelligent Systems* (pp. 337-351). Springer, Cham.
- Gomes, H. M., Montiel, J., Mastelini, S. M., Pfahringer, B., & Bifet, A. (2020, July). On ensemble techniques for data stream regression. In *2020 International Joint Conference on Neural Networks (IJCNN)* (pp. 1-8). IEEE.

Current Grants and Scholarships

01/08/2018-14/02/2023	FAPESP grant #2018/07319-6, Multi-target regression stream mining
25/03/2018-31/07/2022	FAPESP grant #2021/10488-7, Online Nearest Neighbor Search

Scholarships and Certificates

04/2016-03/2018	CAPES Scholarship for MSc

Academic indicators

Indexed journal papers:	21
Conference papers:	15
Pre-prints:	7

Computer Skills

Basic Knowledge:	HTML, CSS, Javascript, annoy, pytorch, tensorflow
Intermediate Knowledge:	R, C/C++, Java
Advanced Knowledge:	river, scikit-learn, numpy, pandas, Python, xgboost, lightgbm

Open source

Maintainer and founding member of the River[1] library for Online Machine learning.

[1] https://riverml.xyz