Wellington José Leite da Silva

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Education

School of Applied Mathematics, Getulio Vargas Foundation   *Feb 2024 – Present*
MSc in Applied Mathematics and Data Science

- **Coursework:** Probability, Analysis, Reinforcement Machine Learning, Applied Statistics and Computational Statistics.

School of Applied Mathematics, Getulio Vargas Foundation   *Feb 2020 – Dec 2023*
BS in Applied Mathematics

- **Thesis**: Series extrapolation methods applied to the Tweedie distribution;
- **Coursework:** Computation, Discrete Mathematics, Probability and Statistics, Machine Learning, Optimization and Applied Statistics.

Experience

Teaching Assistant   *Rio de Janeiro, RJ*
School of Applied Mathematics, Getulio Vargas Foundation   *Aug 2022 – Jun 2023*

- Teaching Assistant for the Data Structure and Algorithms course between Aug 2022 and Dez 2022 (Assisted 60+ students);
- Teaching Assistant for the Natural Language Processing and Information Retrieval Systems course between Fev 2023 and Jun 2023 (Assisted 20+ students).

Publications

Explorando a revisão de corpora por meio da comparação de regras gramaticais em padrões sintáticos.   2021
SILVA, Wellington José Leite da, RADEMAKER, Alexandre, ALENCAR, Leonel Figueiredo de
[10.5753/stil.2021.17780](https://doi.org/10.5753/stil.2021.17780) ↗

Adaptive Truncation of Infinite Sums: Applications to Statistics   2025
Wellington J. Silva, Luiz M. Carvalho, Guido A. Moreira
[Proceeding Series of the Brazilian Society of Computational and Applied Mathematics, v. 11, n. 1, 2025.](#) ↗

Tupian Language Resources: Data, Tools, Analyses   2022
Lorena Martín Rodríguez, Tatiana Merzhevich, **Wellington Silva**, Tiago Tresoldi, Carolina Aragon, Fabrício F. Gerardi
[SIGUL workshop of LREC.](#) ↗

Extracting Valences from a Dependency Treebank for Populating the Verb Lexicon of a Portuguese HPSG Grammar   2022
Leonel Figueiredo de Alencar, Lucas Ribeiro Coutinho, **Wellington José Leite da Silva**, Ana Luiza Nunes, Alexandre Rademaker
[10.1007/978-3-030-98305-5_34](https://doi.org/10.1007/978-3-030-98305-5_34) ↗

Projects

Research Project - DHBB *github.com/cpdoc/dhbb* ↗

- Manipulation of trainable parsers on Portuguese language corpora applying to DHBB ↗.
- Tools Used: Haskell, Python, Shell script, Lisp

Python library: InfSumPy *pypi.org/project/InfSumPy* ↗

- Developed a library to approximate infinite sums with guaranteed error.
- Tools Used: Python

Python library: Extrapolation *pypi.org/project/extrapolation* ↗

- Developed extrapolation methods to real series with arbitrary precision.
- Tools Used: Python

Abstract repository *github.com/Resumos_EMAP-FGV* ↗

- Abstracts of courses taken during graduation in Applied Mathematics to help other students.
- Tools Used: Latex, Tex

Additional Education

Machine Learning with Python (300h) *2022 - 2023*
freeCodeCamp, FCC, USA

JavaScript Algorithms and Data Structures (300h) *2022 - 2022*
freeCodeCamp, FCC, USA

Responsive Web Design (300h) *2021 - 2022*
freeCodeCamp, FCC, USA

Awards

Honourable Mention at level 3, OBMEP ↗ *2019*
The Brazilian Mathematical Olympiad of Public Schools

Silver Medal at level 3, OBMEP ↗ *2018*
The Brazilian Mathematical Olympiad of Public Schools

Technologies

Languages: Python, R, C++, Shell script, Haskell, HTML, CSS, JavaScript and Stan.

Technologies: Linux, Python API, Matlab and Microsoft Office.