TAINÃ COLEMAN

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tainacoleman.com

SKILLS

- Programming Languages: Python, HTML, C/C++, Java, MATLAB
- Distributed Scientific Workflows, Distributed Computing, Pattern Recognition, Machine Learning
- Languages: Portuguese and English

EDUCATION

University of Southern California 2020 - Present
Ph.D. Computer Science *4.0*

California State University Long Beach (CSULB) 2018 - 2020
MS Computer Science *4.0*

Universidade Federal de Itajubá (UNIFEI) 2011 - 2016
BS Computer Engineering *3.04*

PUBLICATIONS AND AWARDS

2020 - "WorkflowHub: Community Framework for Enabling Scientific Workflow Research and Development", 2020 IEEE/ACM Workflows in Support of Large-Scale Science (WORKS) (pp. 49-56). DOI: 10.1109/WORKS51914.2020.00012
2021 - "Evaluating Energy-Aware Scheduling Algorithms for I/O-Intensive Scientific Workflows". In International Conference on Computational Science (pp. 183-197). Springer, Cham. DOI: 10.1007/978-3-030-77961-0_16.
2021 - "WfCommons: A framework for enabling scientific workflow research and development". In Future Generation Computer Systems (FGCS) (v. 128, pp. 16-27). DOI:10.1016/j.future.2021.09.043
2021 - "WfChef: Automated Generation of Accurate Scientific Workflow Generators". In International Conference on e-Science (eScience2021).

EXPERIENCE AND PROJECTS

University of Southern California 2020 - Present
Graduate Student Research Assistant

· Conducts research on automating the construction, performance analysis and benchmarking of scientific workflows.

California State University Long Beach 2018 - 2020
Graduate Student Research Assistant

· Developed a Python framework to individually identify sharks using machine learning and boundary descriptor matching techniques.

California State University Long Beach Spring 2020
Teaching Associate

· Conducted laboratory classes for undergraduate Computer Engineering students.