Gean Pereira
Curriculum Vitae
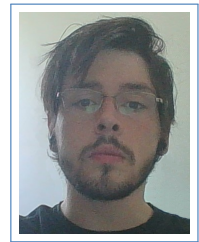
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Education

2019–Now **Doctoral degree**, *University of São Paulo*, *Mathematics and Computer Sciences*.
Phd in Mathematics and Computer Sciences with focus in Machine Learning/Deep Learning. My research is focused on Meta-Learning for the problem of Neural Architecture Search.

2016–2018 **Master degree**, *Federal University of São Carlos*, *Computer Science*.
Master Degree in Computer Science with focus in Machine Learning, more precisely, classification and hierarchical classification methods applied to biological data.

2012–2015 **Bachelor degree**, *Federal University of Pampa*, *Software Engineering*.
Bachelor degree with focus in multiplatform development (Desktop, Web and Mobile), study of engineering techniques and agile methodology.

2009–2011 **Technician Course**, *Federal Farroupilha Institute*, Brazil, *Computer Technician*.
Basic Hardware/Software education with emphasis on high level programming.

Publications

2020 **PEREIRA, G. T.**; SANTOS, M. R.; CARVALHO, A. C. P. L. F. Evaluating Meta-Feature Selection for the Algorithm Recommendation Problem. Arxiv.

2019 **PEREIRA, G. T.**; CARVALHO, A. C. P. L. F. Bringing robustness against adversarial attacks. Nature Machine Intelligence, p. 1-2.

2019 **PEREIRA, G. T.**; SANTOS, M. R.; ALCOBAÇA, E; MANTOVANI, R. G; CARVALHO, A. C. P. L. F. Transfer Learning for Algorithm Recommendation. In: LatinX in AI Research Workshop at Conference on Neural Information Processing Systems (NeurIPS), Vancouver, Canada.

2019 TONON, V. R.; DA SILVA, T. P.; FERREIRA, V.; **PEREIRA, G. T.**; REZENDE, S. O. Evaluating Vector Representations from User's Reviews in a Recommendation Task. In: Encontro Nacional de Inteligência Artificial e Computacional (ENIAC), Salvador, Brazil. Proceedings of the 16th National Meeting on Artificial and Computational Intelligence.

2019 **PEREIRA, G. T.**; GABRIEL, P. H. R.; CERRI, R. Hierarchical Classification of Transposable Elements with a Weighted Genetic Algorithm. In: EPIA Conference on Artificial Intelligence. Vila Real, Portugal.

2019 **PEREIRA, G. T.**; GABRIEL, P. H. R.; CERRI, R. A Lexicographic Genetic Algorithm for Hierarchical Classification Rule Induction. In: The Genetic and Evolutionary Computation Conference (GECCO). Praga, Czech Republic.

2018   **PEREIRA, G. T.**; CERRI, R. Hierarchical and Non-Hierarchical Classification of Transposable Elements with a Genetic Algorithm. Journal of Information and Data Management - JIDM, v. 9, p. 163-178.

2018   SANTOS, B. Z.; **PEREIRA, G. T.**; NAKANO, F. K.; CERRI, R. Strategies for Selection of Positive and Negative Instances in the Hierarchical Classification of Transposable Elements. In: 7th Brazilian Conference on Intelligent Systems (BRACIS). São Paulo, Brazil.

2018   **PEREIRA, G. T.**; SANTOS, B. Z.; CERRI, R. A Genetic Algorithm for Transposable Elements Hierarchical Classification Rule Induction. In: IEEE Congress on Evolutionary Computation (CEC). Rio de Janeiro, Brazil.

2017   **PEREIRA, G. T.**; CERRI, R. Classificação Hierárquica e Não Hierárquica de Elementos Transponíveis. In: Symposium on Knowledge Discovery, Mining and Learning. Uberlândia, Brazil.

2014   **PEREIRA, G. T.**; CHERVINSKI, J. O. M.; CHEIRAN, J. F. P. Inclusive Social Games: Evaluation of Accessibility in Facebook Games. In: Regional Congress of Scientific and Technological Initiation in Engineering. Alegrete, Brazil.

2014   **PEREIRA, G. T.**; KEPLER, F. N. edX: A Smart Platform in Learning Management. In: VI International Teaching, Research and Extension Exhibition. Bagé, Brazil.

Research Projects

2019–Now   **Meta-Learning Applied to Neural Architecture Search**, *University of São Paulo. Supervisor: André C. P. L. F. de Carvalho.*

2016–2018   **Multi-Objective Evolutionary Methods for Hierarchical and Multi-label Classification**, *Federal University of São Carlos/University of Surrey. Supervisor: Ricardo Cerri.*

2016–2018   **Hierarchical Classification of Transposable Elements using Machine Learning**, *Federal University of São Carlos. Supervisor: Ricardo Cerri.*

2015–2016   **Security and Performance in Ubiquitous and Pervasive Computing**, *Federal University of Pampa. Supervisor: Juliano Fontoura Kazienko.*

2014–2015   **Development of Accessible Games for Web**, *Federal University of Pampa. Supervisor: Jean Felipe Patikowski Cheiran.*

Work History

2014–2015   **Java Developer Intern**, *Porthal Systems*, Brazil.
Reengineering project of a management system made in Desktop platform for the Java Web platform, which also involved the migration of a Firebird database to MySQL

2013–2014   **Web Developer Intern**, *Federal University of Pampa*, Brazil.
Maintenance and Support of the Unified Management System of Institutional Resources (G.U.R.I) in the Information and Communication Technology Center (NTIC)

Scholarships and Awards

2019–Now **FAPESP** PhD Scholarship at University of São Paulo, Brazil

2019–2019 **CAPES** PhD Scholarship at University of São Paulo, Brazil

2016–2018 **CAPES** MSc Scholarship at Federal University of São Carlos, Brazil

2015 **Outstanding Student** of the Bachelor degree in Software Engineering at Federal University of Pampa - Campus Alegrete, Brazil

Languages

Native Portuguese

Advanced English

Basic Spanish

Presentations

2019 Transfer Learning for Algorithm Recommendation. In: LatinX in AI Research Workshop at Conference on Neural Information Processing Systems (NeurIPS), Vancouver, Canada.

2018 A Genetic Algorithm for Transposable Elements Hierarchical Classification Rule Induction. In: IEEE Congress on Evolutionary Computation (CEC), Rio de Janeiro, Brazil.

2017 A Lexicographic Approach for Hierarchical Classification of Transposable Elements. In: 1º Paulista Meeting of Graduate Students in Computer Science, São Carlos, Brazil.

2017 Hierarchical and Non-Hierarchical Classification of Transposable Elements. In: Symposium on Knowledge Discovery, Mining and Learning, Uberlândia, Brazil.

2014 Inclusive Social Games: Evaluation of Accessibility in Facebook Games. In: Regional Congress of Scientific and Technological Initiation in Engineering, Alegrete, Brazil.

2014 edX: A Smart Platform in Learning Management. In: VI International Teaching, Research and Extension Exhibition, Bagé, Brazil.

2014 Google Android: Architecture and Software Development. In: IV Academic Week of the Course of Analysis and Systems Development, Federal Institute Farroupilha, Alegrete, Brazil.

2014 Workshop of Android Applications Development In: VI Academic Week of the Technological Campus of Alegrete - Federal University of Pampa, Alegrete, Brazil.