

Mariana de Oliveira Santos Silva

DATA SCIENTIST

Belo Horizonte, Brazil

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Professional Experience

MPMG/GSI/UFMG

DATA SCIENTIST RESEARCHER

- Acting in the construction of audit trails to detect evidence of fraud in bids, as well as implementing the classification and enrichment of public expenditure data

Belo Horizonte, Brazil

June 2021 - Present

MGgrafeno Project

TECHNICAL RESEARCHER

- Acting in the development of computational methods to be applied in the management of data generated from experiments for the synthesis, application and characterization of graphene

Belo Horizonte, Brazil

May 2020 - April 2021

Mozilla

OUTREACHY INTERN

- Working on the project *Finding Representative Users of Prerelease Firefox*
- Familiarize with the Firefox telemetry dataset, performing exploratory data analysis
- Study statistical matching techniques and build out modeling codebase, including calculating model performance
- Train a statistical matching model to find a subset of Firefox Beta clients that is representative of Firefox Release clients

Remote

December 2019 - March 2020

Apoena (CNPq Universal)

UNDERGRADUATE RESEARCH ASSISTANT

- Develop and validate models for academic social networks
- Analyze the strength of relationships in academic social network communities
- Implement a data collector and relational database project to store them

Belo Horizonte, Brazil

2016 - 2017

Reinventando o Ensino Médio, REM

INTERN

- Assist in the selection and creation of didactic materials to be used in IT disciplines
- Make the didactic material created (written materials, videos, and practical activities) available
- Provide technical support on the Moodle platform

Belo Horizonte, Brazil

2014 - 2015

Education

Universidade Federal de Minas Gerais (UFMG)

MASTERS IN COMPUTER SCIENCE

- Project:** Collaboration-aware Hit Song Analysis and Prediction
- Advisor:** Mirella Moura Moro

Belo Horizonte, Brazil

2018 - 2020

Universidade Federal de Minas Gerais (UFMG)

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

- Project:** Can the Strength of Relationships Measure the Quality of Communities?
- Advisor:** Mirella Moura Moro

Belo Horizonte, Brazil

2012 - 2017

Dublin Institute of Technology (DIT)

COMPLEMENTARY EDUCATION

Dublin, Ireland

2015 - 2016

Publications

21st International Society for Music Information Retrieval Conference - ISMIR

DETECTING COLLABORATION PROFILES IN SUCCESS-BASED MUSIC GENRE NETWORKS

- Gabriel P. Oliveira, Mariana O. Silva, Danilo B. Seuffitelli, Anisio Lacerda, Mirella M. Moro

Montréal, Canada

2020

SAC'19 Proceedings of the 34th ACM/SIGAPP

COLLABORATION PROFILES AND THEIR IMPACT ON MUSICAL SUCCESS

- Mariana O. Silva, Laís M. Rocha, Mirella M. Moro

Limassol, Cyprus

2019

Proceedings of the 25th Brazilian Symposium on Multimedia and the Web

CAUSALITY ANALYSIS BETWEEN COLLABORATION PROFILES AND MUSICAL SUCCESS

- Mariana O. Silva, Mirella M. Moro

Rio de Janeiro, Brazil

2019

Simpósio Brasileiro de Bancos de Dados - SBBD

MUSICOSSET: AN ENHANCED OPEN DATASET FOR MUSIC DATA MINING

- Mariana O. Silva, Laís Rocha, Mirella M. Moro

Fortaleza, Brazil

2019

Simpósio Brasileiro de Bancos de Dados - SBBD

PREDICTING MUSIC SUCCESS BY COMBINING SONG FEATURES AND SOCIAL METRICS

- Mariana O. Silva, Mirella M. Moro

Fortaleza, Brazil

2019

TECHNICAL REPORT

PUBLICATION PROFILES THROUGH KNOWLEDGE AREAS-DIVERSE ANALYSES OVER GOOGLE SCHOLAR

- Gabriela D. Lanza, Mariana O. Silva, Mirella M. Moro, José Palazzo M. de Oliveira

2019

Simpósio Brasileiro de Bancos de Dados - SBBD

A FORÇA DOS RELACIONAMENTOS PODE MEDIR A QUALIDADE DE COMUNIDADES?

- Mariana O. Silva, Michele A. Brandão, Mirella M. Moro

Uberlândia, Brazil

2017

Simpósio Brasileiro de Bancos de Dados - SBBD

DEDUPLICAÇÃO DE NOMES E REDES DE CO-AUTORIA NA DBLP

- Mariana O. Silva, Michele A. Brandão

Uberlândia, Brazil

2017

Simpósio Brasileiro de Bancos de Dados - SBBD

DEDUPLICAÇÃO DE NOMES E REDES DE CO-AUTORIA NA DBLP

- Mariana O. Silva, Michele A. Brandão

Uberlândia, Brazil

2017

Awards

Best Poster Presentation

21ST INTERNATIONAL SOCIETY FOR MUSIC INFORMATION RETRIEVAL CONFERENCE - ISMIR

- *Detecting Collaboration Profiles in Success-based Music Genre Networks*

Montréal, Canada

2020

Second best article of the II SBBD Dataset Showcase Workshop

SIMPÓSIO BRASILEIRO DE BANCOS DE DADOS - SBBD

- *MusicOSet: An Enhanced Open Dataset for Music Data Mining*

Fortaleza, Brazil

2019

Top 6 best full paper

SIMPÓSIO BRASILEIRO DE BANCOS DE DADOS - SBBD

- *Causality Analysis Between Collaboration Profiles and Musical Success*

Rio de Janeiro, Brazil

2019

Languages

Portuguese Fluent or native

English Intermediate (speaking, reading, writing)

Spanish Basic (speaking, reading, writing)

Skills

Languages Python, R Programming, C, C++, SQL, Java

Hard Skills Machine Learning, Data Analysis, Statistical Analysis

Soft Skills Creativity, Collaboration, Problem Solving

Projects

Bàde Project

HOME PAGES . DCC . UFMG . BR / ~MIRELLA / PROJS / BADE /

- Metrics on Data to/from Social Networks in Different Contexts

2019 - Present

Comusic.

MARIANA OSSILVA . GITHUB . IO / COMUSIC .

- An ongoing project created to investigate patterns and characteristics of musical collaborative networks.

2019

MusicOSet

MARIANA OSSILVA . GITHUB . IO / DSW2019

- An open and enhanced dataset of musical elements (music, albums and artists) suitable for music data mining.

2019

Minha Empresa

CRUDPARASEMPRE . GITHUB . IO / DOCES /

- Game to teaching concepts of the Software Engineering area in a fun way.

2016