Work Experience _____

Eldorado Research Institute

Campinas, Brazil Dez. 2020 - Present

SOFTWARE ANALYST

• Research and develop algorithms for image and video enhacement in smartphones. Some of them in real time.

- Explore Deep Larning and Classical Image Processing techniques.
- Creation and curation of dataset to be used to train deep learning models.
- Design and develop pipelines for CI (Continuous Integration).
- Define good practices in machine learning to be used throughout a company.
- Design and implement a library for forecasting time series.

Unifeso Teresópolis, Brazil

PROFESSOR

- Mar. 2022 Present • Coordinate a research and extension laboratory.
- Tutorship of final undergrad final project.

UFMG - VeRLab/Petrobras

Belo Horizonte, Brazil Dez. 2018 - Dez. 2020

RESEARCHER/DEVELOPER

- Research and develop state-of-the-art techniques to solve problems related to the reconstruction of construction sites, the schedule of construction sites, and teleoperation on construction sites.
- Design and develop systems to automatize the pipeline of reconstruction of a construction site.
- Design and develop hardware to collect data using a UGV (Unmanned Ground Vehicles), that also can be used by a human user.

Teaching Experience _____

UFMG - Computational Linear Algebra

Belo Horizonte, Brazil

2019

ASSISTANT

- Weekly meetings of 1-hour duration, to solve questions and help undergrad students with theoretical and practical exercises.
- Prepare and correct theoretical and practical exercises, help professors on the correction of exams.
- Teach a class about PageRank.
- · Class with 180 students.

UFMG - Introduction to Visual Computing/Computer Vision

Belo Horizonte, Brazil

ASSISTANT

2019

- Teach classes about Machine Learning on Visual Computing to undergrad students.
- Help on the preparation of classes.

UFSJ - Analytical Geometry

São João del-Rei, Brazil

2015

- Weekly meetings of 2-hour duration, to solve questions and help undergrad students with theoretical and practical exercises.
- · Class with 90 students.

Education

UFMG (Universidade Federal de Minas Gerais)

Belo Horizonte, MG - Brazil

Aug. 2018 - Oct. 2020

M.Sc in Computer Science

• Synthesizing Realistic Human Dance Motions Conditioned by Musical Data using Graph Convolutional Networks.

UFSJ (Universidade Federal de São João del-Rei)

São João del-Rei, MG - Brazil

Mar. 2014 - Jul. 2018

B.Sc in Computer Science

• Reconhecimento automatico de pistas para veículos autonomos utilizando têcnicas de visão computacional.

Honors & Awards

2021	Best M.Sc. Dissertation Award in the WTD in Graphics, Patterns and Images, SIBGRAPI	Online
2021	Finalist of the Best M.Sc. Dissertation Award, Brazilian Computing Society's Congress	Online
2017	Honroable Mention, Symposium on Virtual and Augmented Reality	Curitiba, Brazil
2013	First Certificate in English, Cambridge English Qualifications	Cambridge, UK

Publications _____

International Journal of Computer Vision

Volume 129

A SHAPE-AWARE RETARGETING APPROACH TO TRANSFER HUMAN MOTION AND APPEARANCE IN MONOCULAR VIDEOS

Apr. 2021

• Computer Vision; Computer Graphics; Motion Transfer.

Computers & Graphics

Volume 94

LEARNING TO DANCE A GRAPH CONVOLUTIONAL ADVERSARIAL NETWORK TO GENERATE REALISTIC DANCE MOTIONS FROM AUDIO

Feb. 2021

• Computer Vision; Computer Graphics; Motion Synthesis.

Winter Conference on Applications of Computer Vision

Aspen, CO, United States

DO AS I DO TRANSFERRING HUMAN MOTION AND APPEARANCE BETWEEN MONOCULAR VIDEOS WITH SPATIAL AND TEMPORAL CONSTRAINTS

Mar. 2020

• Computer Vision; Computer Graphics; Motion Transfer.

Rio Oil & Gas Expo and Conference 2020

Rio de Janeiro, Brazil

CONNECTING REAL WORLD AND "DIGITAL TWINS" WITH MULTIVISÃO SYSTEM

Dec. 2020

• Computer Vision; Robotic; SLAM.

International Conference on Computational Science and its Applications

Melbourne, Australia

AN RGB-BASED GESTURE FRAMEWORK FOR VIRTUAL REALITY ENVIRONMENTS

Jul. 2018

• Digital Image Processing; Computer Vision; Virtual and Augmented Reality.

Symposium on Virtual and Augmented Reality

Curitiba, Brazil

Uma Abordagem para Detecção Gestos Voltada a Ambientes de Realidade Virtual e Aumentada

International Symposium on Computer Music Multidisciplinary Research

Nov. 2017

• Digital Image Processing; Computer Vision; Virtual and Augmented Reality.

THE FRAMEWORK OF COPISTA AN OMR SYSTEM FOR HISTORICAL MUSIC COLLECTION RECOVERY

São Paulo, Brazil

• Digital Image Processing; Computer Vision; Virtual and Augmented Reality.

Jul. 2016

Languages ____

Portuguese, Native Speaker **English**, Near native / Fluent

Skills

Main Skills, Computer Vision, Machine Learning, Algorithms and Data Structure.

Programming Languages, Python, Java, JavaScript, C, C++.

Management Software, Singularity, Docker, Git, Kubernetes.

Libraries/Frameworks, OpenCV, PyTorch, Tensorflow.