Gabriel Guimarães Carvalho

github.com/ggcarvalho linkedin.com/in/ggcarvalho

Calculus I, IIAnalytic Geometry

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Education	
Universidade Federal de Pernambuco – UFPE	Aug. 2019 – Present
PhD. Student in Computer Science	Recife, BR
Università di Roma "La Sapienza"	Feb. 2014 – Feb 2017
PhD. degree in Physics and Relativistic Astrophysics	Rome, IT
Universidade Federal de Pernambuco – UFPE	2011 – 2013
M.Sc. degree in Mathematics Universidade Federal de Pernambuco – UFPE	Recife, BR 2008 – 2010
B.Sc. degree in Mathematics	Recife, BR
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Experience	L L 2022 - D L
Computer Vision Data Scientist	Jul. 2022 – Present
MorayComputer Vision and Image Processing	São Paulo/Remote, BR
 Data preprocessing and Data Analysis Geographic Information System 	
Multispectral Satellite Image Processing	
Computer Vision Data Scientist	Jul. 2021 – Jul. 2022
SpaceTime Labs • Computer Vision and Image Processing	São Paulo/Remote, BR
Data preprocessing and Data Analysis	
Geographic Information System	
Multispectral Satellite Image Processing	
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Ph.D. Researcher	Sep. 2019 – Jun. 2021
Projeto CIn - Motorola	Recife, BR
Computational Photography Re D of image processing and quality assessment tools.	
R&D of image processing and quality assessment tools Page Lagrange processing and development.	
Deep Learning research and development Data propressing and Data Applysis	
Data preprocessing and Data Analysis	2017 2012
Postdoctoral Researcher	2017 – 2018
Universidade Federal Rural de Pernambuco – UFRPE	Recife, BR
 Alternative gravitational theories and geometric methods in Physics 	N 0017 1 10010
Lecturer Universidade Sedand de Demande de USDS	Nov 2017 – Jul 2019
Universidade Federal de Pernambuco – UFPE	Recife, BR
Calculus I, II, III Analytic Coornets:	
Analytic Geometry Lincor Algebra	
Linear Algebra Challes	
Calculus in one complex variable	
Lecturer	Apr 2012 – Jan 2014
Universidade Federal de Pernambuco – UFPE	Recife, BR

Publications

A Deep Learning Approach to Mobile Camera Image Signal Processing. WORKSHOP ON INDUSTRY APPLICATION - CONFERENCE ON GRAPHICS, PATTERNS AND IMAGES (SIBGRAPI), 33., 2020, Evento Online. Anais. Porto Alegre: Sociedade Brasileira de Computação, 2020. p. 225-231.

Jose Ivson S. Silva, Gabriel G. Carvalho, Marcel Santana Santos, Diego J. C. Santiago, Lucas Pontes de Albuquerque, Jorge F. Puig Battle, Gabriel M. da Costa, and Tsang Ing Ren

On the hypotheses of Penrose's singularity theorem under disformal transformations. Eur. Phys. J. C 80 (2020) 3, 265 and 2020 are the contract of the same of the

Eduardo Bittencourt, Gabriel G. Carvalho, Iarley P. Lobo, and Leandro Santana

The geometry of null-like disformal transformations. Int.J.Geom.Meth.Mod.Phys. 16 (2019) 11, 1950180 larley Lobo and Gabriel G. Carvalho

Scalar field self-force effects on a particle orbiting a Reissner-Nordström black hole. Phys.Rev.D 94 (2016) 12, 124028

Donato Bini, Gabriel G. Carvalho, and Andrea Geralico

Extended disformal approach in the scenario of Rainbow Gravity. Phys.Rev.D 93 (2016) 4, 044005

Gabriel G. Carvalho, Iarley P. Lobo, and Eduardo Bittencourt

On the disformal invariance of the Dirac equation. Class.Quant.Grav. 32 (2015) 185016

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Technical Skills, Language Skills, and Interests

OS: Linux, macOS

Programming Languages: Python (proficient), C++ (familiar), Java (familiar), Matlab (familiar), Go (beginner)

Libraries: OpenCV, Pandas, Matplotlib, Numpy, Scipy, Tensorflow + Keras, Scikit-Image, Scikit-Learn, Pytorch, Geopandas, Rasterio

Version Control: Git, DVC (Data Version Control)

Cloud: AWS s3
Writing: 上下EX, Office

Languages: Portuguese (native), English (fluent), Italian (conversational), Norwegian (beginner)

Interests: Machine Learning, Computer Vision and Image Processing, MLOps, Mathematics, Travel, Music, Photography, Nature, Philosophy,

Brazilian Jiu-Jitsu

Extracurricular

Specialization: Deep Learning by DeepLearning.Al on Coursera. Certificate earned at July 12, 2020

Specialization: Mathematics for Machine Learning by Imperial College London on Coursera. Certificate earned at Dec. 12, 2020

Course: Machine Learning by Stanford University on Coursera. Certificate earned at Mar. 18, 2021