Gabriel Guimarães Carvalho

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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	Recife, BR		
Universidade Federal de Pernambuco – UFPE	2008 – 2010		
B.Sc. degree in Mathematics	Recife, BR		

Experience

Ph.D. Researcher Sep. 2019 - Present

Projeto CIn - Motorola

- R&D of image processing and quality assessment tools
- · Deep Learning research and engineering
- · Data analysis and preprocessing

Postdoctoral Researcher 2017 - 2018

Universidade Federal Rural de Pernambuco - UFRPE

• Alternative gravitational theories and geometric methods in Physics

Nov 2017 - Jul 2019

Universidade Federal de Pernambuco - UFPE

- · Calculus I, II, III
- · Analytic Geometry
- · Linear Algebra
- Calculus in one complex variable

Apr 2012 - Jan 2014 Lecturer

Universidade Federal de Pernambuco - UFPE

- Calculus I, II
- · Analytic Geometry

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 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 Iarley 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

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

Technical Skills, Language Skills, and Interests

OS: Linux, macOS

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

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

Version Control: Git Writing: ŁTEX, Office

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

Interests: Computational Neuroscience, Computational Intelligence, Computer Vision and Image Processing, Mathematics, Travel,

Photography, Nature, Philosophy

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