Vítor de Godeiro Marques

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Education

Federal University of Rio Grande do Sul (UFRGS) Porto Alegre, RS, Brazil
Master of Science in Computer Science Feb. 2023
Advisor: Prof. Manuel M. Oliveira

Institute for Pure and Applied Mathematics (IMPA) Rio de Janeiro, RJ, Brazil
Course on 2D Computer Graphics; Grade: A^- Jan. 2018 to Mar. 2018
Teacher: Prof. Diego Nehab

Federal University of Rio Grande do Norte (UFRN) Natal, RN, Brazil
Bachelor in Computer Science; CGPA: 9.48/10.00, graduated with High Distinction Dec. 2018
Advisors: Prof. Bruno Motta and Prof. Bruno Santana

Employment History

- **Machine Learning Engineer, Acertpix, São Paulo, SP, Bazil** Dec. 2021 to Present
  Designed and implemented deep learning models and computer vision techniques to detect fraudulent documents. Responsible for the deployment of machine learning models into production environments, infrastructure management at GCP (30% reduction of infrastructure costs). Optimization of processing time in pdf documents.

- **Machine Learning Engineer, Pix Force, Porto Alegre, RS, Bazil** Jul. 2020 to Nov. 2021
  Designed and implemented deep learning models and computer vision techniques for industry 4.0 problems. #1 startup in computer vision in Brazil and multi-award winning.

Publications

- Alex R Cunha Lima, Arthur M Medeiros, **Vítor G Marques**, Manuel M Oliveira. *Real-time simulation of accommodation and low-order aberrations of the human eye using light-gathering trees.* The Visual Computer, Springer Berlin Heidelberg, 2021

- Carlos Diego F. da Rocha, Bruno M. Carvalho, **Vítor G. Marques**, Bruno S. Silva. *WoundArch: A Hybrid Architecture System for Segmentation and Classification of Chronic Wounds.* 14th International Joint Conference on Biomedical Engineering Systems and Technologies, HEALTHINF, 2021

- **Vítor Godeiro**, Luis R. D. da Silva, Bruno M. Carvalho, Leandson R. F. de Lucena, Marcela M. Vieira. *Deep Learning-based Pore Segmentation of Thin Rock Sections for Aquifer Characterization using Space Color Reduction.* IEEE International Conference on Systems, Signals and Image Processing (IWSSIP), 2019

- **Vítor Godeiro**, José Neto, Bruno Carvalho, Julianny Ferraz, Bruno Santana, Renata Gama. *Chronic Wound Tissue Classification Using Convolutional Networks And Color Space Reduction.* IEEE International Workshop on Machine Learning for Signal Processing (MLSP), 2018

Experiences

- **Teaching Assistent, Federal University of Rio Grande do Sul** Mar. 2020 to Jul.2021
  Advisor: Prof. Manuel Menezes de Oliveira Neto
  T.A for the courses of "Computer Graphics" and "Computational Photography".

- **Research Assistent, Federal University of Rio Grande do Norte** Sep. 2016 to Nov. 2018
  Advisor: Prof. Bruno Motta de Carvalho
  We investigated algorithms to perform the segmentation of wounds as well the classification tissues as Necrotic, Granulation or Slough based on their textural properties (The Earth Mover distance) or using several convolutional networks and proposed a color space reduction methodology.

- **Software Engineer Intern, Digital Metropole Institute** Sep. 2017 to Dec. 2017
  Worked to make improvements at the Labs System that is responsible for the control and planning of the activities of the laboratories of the research centers linked at the Metropole Digital Institute.

- **Research Assistent, Federal University of Rio Grande do Norte** Jan. 2015 to Jun. 2016
  Advisor: Prof. Bruno Santana
  We developed virtual tools to improve the quality of practice teaching in parasitology and medical entomology.

Awards

- Student Merit Medal, Best winter 2018 graduating student of the Computer Science Feb. 2019
- Best Paper in Progress, Workshop on Medical Informatics, Brazil Jul. 2017

Fellowships

- M.Sc. Scholarship, Coordination for the Improvement of Higher Education Personnel 2019, 2020
- Scientific Initiation Scholarship, Norte-Rio-Grandense Foundation of Research and Culture 2018
- Tutorial Education Program, Brazilian Ministry of Education 2016, 2017
- Young Talents Program for Science, Coordination for the Improvement of Higher Education Personnel 2015

Computer Skills

Languages: C/C++, Python, Java, Lua.
Libraries: Tensorflow, PyTorch, Keras, OpenCV, OpenGL, Numpy, SciPy, SkLearn.
Applications: Vi/Vim, Git, LaTeX.