

Vanessa RC Leite

Software Engineer & Researcher

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EXPERIENCE

SYNSENSE | SENIOR SOFTWARE ENGINEER

Oct 2022 – Current | Zurich, Switzerland

- Planning software releases and architecture to prevent redundancy
- Cultivating a Continuous Integration and Continuous Delivery (CI/CD) culture
- Training team members in software development processes

ETH ZURICH AND UNIVERSITY OF ZURICH | RESEARCHER AND TEACHING ASSISTANT

Oct 2016 – Apr 2023 | Zurich, Switzerland

- Conducted research and published papers on neuromorphic engineering
- Conducted research in vision algorithms for neuroscience
- Lectured around 200 students per semester in neuroinformatics

TECGRAF | RESEARCHER, SENIOR DEVELOPER, AND SCRUM MASTER

Aug 2010 – Aug 2016 | Rio de Janeiro, Brazil

- Conducted research and developed tools for real-time rendering, computer vision, and machine learning algorithms for geological applications
- Coordinated communication among clients, product owner, and development team
- Promoted Scrum understanding and guided Scrum ceremonies

VALE | DEVELOPER

Jan 2008 – December 2009 | Maranhao, Brazil

- Developed tools and algorithms for resource usage analysis
- Monitored and optimized the use of company resources
- Generated monthly reports and anticipated future demands

FEDERAL UNIVERSITY OF MARANHAO | RESEARCHER AND YOUNG ENTERPRISE DIRECTOR

Mar 2006 – December 2009 | Maranhao, Brazil

- Conducted image processing and machine learning research for medical applications
- Developed tools and algorithms for real-case problems in the local community

PUBLICATIONS

Cortical-inspired Placement and Routing: Minimizing the Memory Resources in Multi-core Neuromorphic Processors | BioCAS 2022

An On-chip Spiking Neural Network for Estimation of the Head Pose of the iCub Robot | FRONTIERS IN NEUROSCIENCE 2020

Application of Reinforcement Learning for Diagnosis Based on Medical Image | I-TECH EDUCATION AND PUBLISHING 2008

OTHER

2020 – Current 500 Women Scientists Zurich Coordination team
2019 – 2022 Equity and Inclusion Committee, Neuroscience Center Committee member

EDUCATION

PHD NEUROSCIENCE

ETH ZURICH AND UNIVERSITY OF ZURICH
Institute of Neuroinformatics
2023 | Zurich, Switzerland

MSC COMPUTER SCIENCE

PONTIFICAL UNIVERSITY OF RIO DE JANEIRO
2012 | Rio de Janeiro, Brazil

BSC COMPUTER SCIENCE

FEDERAL UNIVERSITY OF MARANHAO
2009 | Sao Luis, Brazil

REFERENCES

Prof Dr Giacomo Indiveri,
Professor, ETH Zurich

Dr Matthew Cook, Group
Leader, ETH Zurich

Dr Dylan Muir, Senior Director,
SynSense

SKILLS

PROGRAMMING

C • C++ • Python • OpenGL
OpenCV • CUDA • CI • CD
Design patterns • GoogleTest
Git • PyTest • Scrum • Docker
Jenkins • Linux • Windows

LANGUAGES

Portuguese • native
English • proficient

INTERESTS

Software Quality • Medical
Applications • Ethics in AI •
Human-Computer Interaction