

João Paulo Amaro da Costa Luz Carneiro

WORK EXPERIENCE

PERSONAL DETAILS

36 years old, 2 children
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AREAS OF EXPERTISE

Project Management

Research&Development

Mobile Malware

Robotics

Computer Vision

Artificial Intelligence

Machine Learning

3D Reconstruction

Neuromorphic
Computation

Event-based signal
processing

Wireless Sensor Networks

Embedded Computation

CEO, R&D Consultant

2018-Ongoing

C-NAPSE, Portugal (Founder)

Skills: Technology consultant (ICT, IOT, WSN, Robotics, Computer Vision, Artificial Intelligence, Data Science), project management, design and planning, systems' administration, CMS management, Decelopment (PHP, Databases, SQL, HTML, CSS, javascript, Python, C, C++)

Projects:

1. Aptoide: Cyberecurity Team Leader. Research and Development of a Cybersecurity System for Android Malware Detection (Project/team Management, Data Science, Analytics, Python Development, Database)
2. Lisbon City Hall: LISBOTIC, building an Open Innovation Center on Robotics, Data Science and User Experience (Ux) (Project Management, Partnerships, Sponsoring, Ux, Data Science, Robotics)
3. Portuguese Catholic University: Praying Mobile App (technology consultant advisor)
4. Portuguese Catholic University: Evaluation of National Equality Programs (technology consultant advisor, PHP, MySql Database, CSS, HTML, BootStrap, Python, Server Administration, Data Analytics)
5. Universal Values University: ICT Coordinator (Server Administration, Wordpress, PHP, MySql Database, Python, RaspberryPi, Arduino, Microsoft Kinect)

Assistant Professor

2018-Ongoing

ISTEC – Institute of Advanced Technologies

Professor on Computer Science and Engineering

Independent R&D Consultant

2003-2018

Independent Contractor/Freelancer

Vice-President – Internet of Things

2016-Ongoing

ACEPI – Portuguese Electronic Commerce and Interactive Advertising Association, Portugal

Skills: Internet of Things group coordinator, organization of meetings, workshops, events, members' management and acquisition.

R&D Director

2014-2015

Orizon Vision, Portugal

Skills: Robotics, Computer Vision, Artificial Intelligence, R&D strategy and opportunities, project management, networking and representative in industry and academia, new business development, funding (e.g. H2020, P2020), industrial property.

LANGUAGES

Portuguese and English
written and spoken fluently

French spoken fluently

ICT Coordinator *2014-2015*

Universal Values Museum, Luso-Illyrian Institute for Human
Development, Portugal

Skills: R&D project management. Project design within multiple
technological domains (computer vision, sensors, interaction or
videogames), identifying partners and collaborations.

Phd Researcher *2010-2014*

Institut de la Vision, Université Pierre et Marie Curie, France

PhD Thesis: "Asynchronous Event-Based 3D Vision"

Skills: Project management, robotics, artificial intelligence, 3D
reconstruction, computer vision, neuromorphic engineering,
asynchronous event-based signal processing, modelization, Matlab, C,
C++, Latex

2 journal papers and 1 patent

Researcher & Software Developer *2009-2010*

Studio Roosegaarde, Netherlands

Skills: R&D in wireless sensor networks, project leader, design and
development of wireless protocol stack (low and high level protocols),
embedded systems, C programming

MSc Researcher *2007-2009*

Movensis, Portugal

Master's Thesis: "Environmental Monitoring based on Wireless Sensor
and Actor Networks"

Skills: R&D in wireless sensor and actor networks

1 poster and 1 conference paper

ICT Technician *2006-2009*

National Management Unit of the European Economic Area Financial
Mechanism, Portugal

Skills: Development of collaborative project management system,
website development and administration, end-user support.

EDUCATION AND TRAINING

PhD Degree in Robotics and Computer Vision *2010-2014*

Université Pierre et Marie Curie, France

MSc Degree in Computer Engineering *2007-2009*

Instituto Superior Técnico, Portugal

BSc Degree in Computer Engineering *2002-2007*

Instituto Superior Técnico, Portugal

Microsoft Certified Professional *2002-2003*

Windows 2000 Network and Operating Systems

Rumos, Portugal

TEACHING AND COMMUNICATIONS

Lectures:

Invited lecturer: "Introduction to Neuromorphic Computation and Neuromorphic Vision", Faculdade de Ciências, Universidade de Lisboa, 2014-2017

Invited lecturer: "Neuromorphic 3D Vision", Instituto de Sistemas e Robótica, Instituto Superior Técnico, Universidade Técnica de Lisboa, 2014

Invited Speaker (best student paper award): João Carneiro, Vitor Rodrigues, Carlos Ribeiro, "Environmental Monitoring based on Wireless Sensor and Actor Networks", Enviroinfo, 2008

PUBLICATIONS

Patents and Publications:

Ryad Benosman, João Carneiro, Sio-Hoi Ieng, "Method of 3D reconstruction of a scene calling upon asynchronous sensors", US Patent 9,628,777, 2017

Sio-Hoi Ieng, João Carneiro and Ryad Benosman, "Event-Based 3D Motion Flow Estimation using 4D Spatio Temporal Subspaces Properties", Frontiers in Neuroscience 10, 596, 2016

João Carneiro, "Asynchronous Event-Based 3D Vision", PhD Thesis, Université Pierre et Marie Curie - Paris VI, 2014

João Carneiro, Sio-Hoi Ieng, Christoph Posch and Ryad Benosman, "Asynchronous Event-Based 3D Reconstruction from Neuromorphic Retinas", Neural Networks, 45(0):27-38, 2013

João Carneiro, "Environmental Monitoring in Wind Farms based on Wireless Sensor and Actor Networks", Msc Thesis, Instituto Superior Técnico, Universidade Técnica de Lisboa, 2009

João Carneiro, Vitor Rodrigues, Carlos Ribeiro, "Environmental monitoring based on wireless sensor and actor networks", Iberian Conference on Information Systems and Technologies, P07, 2008

João Carneiro, Vitor Rodrigues, Carlos Ribeiro, "Environmental monitoring based on wireless sensor and actor networks", Enviroinfo, 2008