Ricardo Rossiter Barioni

PERSONAL DETAILS

Birth	April 22, 1996
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EDUCATION

M.Sc. in Computer Science — `Aug 2018 - Jul 2020`
Federal University of Pernambuco (UFPE), Recife, Brazil

B.Sc. in Computer Science — `Apr 2014 - Jul 2018`
Federal University of Pernambuco (UFPE), Recife, Brazil

PUBLICATIONS

HuTrain: a Framework for Fast Creation of Real Human Pose Datasets — `Jul 2020`
Poster (accepted for publication) *at 2020 21st International Symposium on Mixed and Augmented Reality (ISMAR)*

Songverse: a music-loop authoring tool based on Virtual Reality — `Jul 2020`
Extended Paper (accepted for publication) *at 2020 11st Journal on Interactive Systems (JIS)*

Usability and effects of text, image and audio feedback on exercise correction during augmented reality based motor rehabilitation — `Sep 2019`
Elsevier Computer & Graphics (C&G) Special Issue *at 2019 21th Symposium on Virtual and Augmented Reality (SVR)*

BalletVR: a Virtual Reality System for Ballet Arm Positions Training — `Aug 2019`
Full paper *at 2019 21th Symposium on Virtual and Augmented Reality (SVR)*

Songverse: a music-loop authoring tool based on Virtual Reality — `Aug 2019`
Full paper *at 2019 21th Symposium on Virtual and Augmented Reality (SVR)*

Human Pose Tracking from RGB Inputs — `Aug 2018`

Full paper at *2018 20th Symposium on Virtual and Augmented Reality (SVR)*

ARkanoidAR 2.0: Otimizações em uma solução de realidade aumentada com base em testes de usabilidade   Aug 2018
Poster at *2018 26th Congresso Brasileiro de Engenharia Biomédica (CBEB)*

ARkanoidAR: an Augmented Reality System to Guide Biomechanical Movements at Sagittal Plane   Jun 2017
Full paper at *2017 19th Symposium on Virtual and Augmented Reality (SVR)*

EXPERIENCE

Academic Research   Jan 2018 - Ongoing
Voxar Labs, Recife, BR
> Academic researches focused in natural interaction and machine learning.
> Technique enhancement of human pose estimation methods from RGB inputs.

Academic Research   Mar 2019 - Ongoing
CIn Projeto Samsung, Recife, BR
> Enhancement of user experience on extended realities, in collaboration with Voxar Labs.

Academic Research   Jul 2017 - Mar 2019
CIn Projeto Samsung, Recife, BR
> Enhancement of computer vision's state of art methods, in collaboration with Voxar Labs.

Undergraduate Research   Aug 2016 - Nov 2017
Voxar Labs, Recife, BR
> Academic researches focused in natural interaction and augmented reality.
> Technique enhancement of therapeutic exercise orientations on augmented reality applications using biomechanical gestures recognition and functional gestures recognition methods exploration.

Undergraduate Research   May 2017 - Jun 2017
Voxar Labs, Recife, BR
> Academic researches focused in data visualization.
> Development of a web tool for analyzing bat populations from thermal images obtained on caves.

LEADERSHIP AND AWARDS

Publication at Congresso Brasileiro de Engenharia Biomédica 2018 (CBEB)   Oct 2018
Hotel Atlântico Búzios, Búzios, BR

Participation and Presentation at Symposium on Virtual and Augmented Reality 2017 (SVR)   Nov 2017
PUCPR, Curitiba, BR

Volunteer at Olimpíada Brasileira de Robótica 2017 (OBR)
Arena Pernambuco, São Lourenço da Mata, BR

Participation at International Free Software Forum 2017 (FISL)
PUCRS Center of Events, Porto Alegre, BR

Teacher Assistant of Algorithms and Data Structures
Federal University of Pernambuco (UFPE), Recife, BR

Awarded B in First Certificate in English (FCE)
University of Cambridge, UK

SKILLS

Languages	Portuguese (native language), English (fluent)
Software	Python, OpenCV, PyTorch, Keras, C++, Git
Interests	Machine Learning, Computer Vision, Augmented Reality, Natural Interaction, Data Visualization