

Waldir Pimenta – Curriculum Vitae

Personal Information

Name: Waldir Pimenta
Date of birth: 16 February 1986
Citizenship: Portuguese and Cape Verdean
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Skills and Interests





Key subjects: Programming; 3D computer graphics; web development; open source software; technical writing.
Tech stack: Git, Linux, C/C++, Qt, (X)HTML/JavaScript/CSS, SVG.
Certifications: Pedagogical Competences Certificate (CCP/CAP) Nº F614065/2013

Education





PhD in Computer-generated holography

 Minho University (www.uminho.pt) | Braga, Portugal
 Feb/2011 → present
 Thesis: Exploiting Coherence in Rendering for Computer Generated Holography

MSc in Computer Graphics and Artificial Intelligence




 Minho University (www.uminho.pt) | Braga, Portugal
 Oct/2008 → Dec/2010
 Thesis: [Face recognition using 3D structural geometry of rigid features extracted from 2D images](#)
 Final grade: 17 out of 20 ([equivalent](#) to an A grade)

BSc in Computer Graphics and Multimedia

 Polytechnic Institute of Viana do Castelo (www.ipvc.pt) | Viana do Castelo, Portugal
 Sep/2004 → Mar/2008
 Final project: C# image processing software to convert raster topographic maps to SVG
 Final grade: 16 out of 20 ([equivalent](#) to an A grade)

Professional Experience



Software developer

 PeekMed (www.peekmed.com) | Braga, Portugal
 Oct/2015 → Jul/2017
 Worked on a 3D surgical planning application based on DICOM medical imaging

Software developer (Erasmus internship)

 Vicomtech (www.vicomtech.es) | Donostia-San Sebastián, Spain
 Mar/2010 → Oct/2010
 Developed a 3D face recognition application in C++ using Qt and OpenCV

Augmented Reality (AR) developer

 CCG – Computer Graphics Center (www.ccg.pt) | Guimarães, Portugal
 Jul/2009 → Jan/2010
 Built an AR application with custom 3D modeling and animation

Publications

Academic publications (selection)

Efficient generic face model fitting to images and videos [journal article]

 L. Unzueta, W. Pimenta, J. Goenetxea, L. P. Santos, F. Dornaika (2014)

 Image and Vision Computing 32 (5), 321-334.

A comprehensive taxonomy for three-dimensional displays [conference paper]


 W. Pimenta, L. P. Santos (2012)


 [WSCG 2012](#)

 Plzeň, Czech Republic

Face recognition using 3D geometry of rigid features extracted from 2D images [academic thesis]

 W. Pimenta (2010)

 Master's thesis – Minho University

 Braga, Portugal

Non-academic writing

- Feb/2005 → present: [Volunteer editor](#) on [Wikipedia](#).
- Mar/2002 → Dec/2011: Columnist in the Cape Verdean magazine [Artiletra](#).

Awards and Achievements

- 2016: [3rd place](#) (as part of a team), [Porto Summer of Code](#)
- 2011: [2nd place](#) scientific award, [Fraunhofer Portugal Challenge](#)
- 2004: Winner of public contest for the coat of arms of the Paul municipality, Cape Verde
- 2004: Athlete of the Year award by the City Hall of Mindelo, Cape Verde
- 2003: Gold medal (male junior kata), XIII [World Koshiki Karate-dō Championship](#), Lisbon, Portugal.
- 2003: Winner of public contest for the coat of arms of the Sal municipality, Cape Verde

Projects and Activities

Groups and organizations

- [Rendimento Básico Portugal](#): Co-founder (2013), technical lead, meetings coordinator.
- [Wikimedia Portugal](#): Co-founder, president, member of the board (2009 → present).
- Member of the Permanent Commission of the Pedagogical Council of IPVC (2007)
- President or board member of various student's unions (2001 to 2008).

Participation in events

- Wikimedia Hackathon 2014 (Zurich), 2013 (Amsterdam), 2012 (Berlin)
- Wikimania 2013 (Hong Kong), 2011 (Israel), 2010 (Poland), 2007 (Taiwan)
- TEDxVianadoCastelo ([2013](#)), TEDxYouthBraga ([2011](#)), TEDxOPorto ([2011](#))
- [JCGM Conference](#) X (2012), V (2007), IV (2006), III (2005). Viana do Castelo, Portugal.
- [Sapo Codebits](#) V (2011), IV (2010). Lisbon, Portugal.
- 10º Aniversário da Wikipédia, 15 Jan 2011. Instituto Superior Técnico (IST), Lisbon, Portugal.

Updated: May 2018