Waldir Pimenta — Curriculum Vitae

Personal Information

Name: Waldir Pimenta
Date of birth: 16 February 1986
Citizenship: Cape Verde and Portugal
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Skills and Competencies

Skills: programming, 3D modeling/animation, photo/audio/video editing, vector illustration
Proficient in: MediaWiki, HTML, JavaScript, CSS, SVG, RegEx
Familiar with: git, OpenGL, OpenCV, Qt, Linux, PHP, SQL, LaTeX, C/C++/C#, Python, Julia
Certifications: Pedagogical Competences Certificate (CCP/CAP) n. F614065/2013

Education

PhD in Computer-generated holography *(ongoing)*
🏛 Minho University (www.uminho.pt) | Braga, Portugal
🕐 *Feb/2011 → present*
🔧 Thesis: Exploiting Coherence in Rendering for Computer Generated Holography

Master of Computer Science in Computer Graphics and Artificial Intelligence
🏛 Minho University (www.uminho.pt) | Braga, Portugal
🕐 *Oct/2008 → Dec/2010 (2 years, 2 months)*
🔧 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)

Bachelor of Computer Science in Computer Graphics and Multimedia
🏛 Polytechnic Institute of Viana do Castelo (www.ipvc.pt) | Viana do Castelo, Portugal
🕐 *Sep/2004 → Mar/2008 (3 years, 7 months)*
🔧 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 (Erasmus internship)
🏢 Vicomtech (www.vicomtech.es) | Donostia-San Sebastián, Spain
🕐 *Mar/2010 → Oct/2010 (8 months)*
🔧 Developed a 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 (7 months)*
🔧 3D modeling/animation; built Augmented Reality application in Virtools

Web developer (part-time)
🏢 Ruiiur (www.ruiiur.pt) | Porto, Portugal
🕐 *Nov/2008 → May/2010 (1 year, 7 months)*
🔧 Website development: HTML, CSS, Javascript

Publications

Evaluation of the compressibility of Computer-Generated Holograms *(P)*
- W. Pimenta, L. P. Santos (2015)
- 36th Annual Conference of the European Association for Computer Graphics (Eurographics)
- Zürich, Switzerland (presented in the conference)

Efficient generic face model fitting to images and videos *(J)*
- L. Unzueta, W. Pimenta, J. Goenetxea, L. P. Santos, F. Dornaika (2014)
- Image and Vision Computing 32 (5), 321-334.

An intuitive navigation system: Augmented Reality on the car windshield *(P)*
- W. Pimenta (2012)
- 20º Encontro Português de Computação Gráfica (EPCG)
- Viana do Castelo, Portugal (presented in the conference)

A comprehensive taxonomy for three-dimensional displays *(C)*
- W. Pimenta, L. P. Santos (2012)
- 20th International Conference on Computer Graphics, Visualization and Computer Vision (WSCG)
- Plzeň, Czech Republic (presented in the conference)

Using AR virtual assistants to teach the traditional leather tanning process *(C)*
- E. Carvalho, G. Mações, W. Pimenta (2011)
- 6ª Conferência Ibérica de Sistemas e Tecnologias de Informação (CISTI)
- Chaves, Portugal

Face recognition using 3D geometry of rigid features extracted from 2D images *(T)*
- W. Pimenta (2010)
- Master's thesis — Minho University
- Braga, Portugal

(J)ournal article; (C)onference article; (P)oster; (T)hesis

Awards and Achievements

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

Writing
- Mar/2002 → Dec/2011 (approx. 10 years): Columnist in the Cape Verdean magazine Artiletra.

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