

Waldir Pimenta — Curriculum Vitae

Personal Information

Name: Waldir Pimenta

Date of birth: 16 February 1986

Citizenship: Cape Verde and Portugal

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Website: www.waldirpimenta.com

Skills and Competencies

Skills: Programming, 3D modeling/animation, photo/audio/video editing, vector illustration

Tools (graphics): OpenGL, OpenCV, Qt, VTK, DICOM, (X)HTML/JavaScript/CSS, SVG

Tools (other): Git, Linux, PHP, SQL, LaTeX, C/C++/C#, Python, Julia

Certifications: Pedagogical Competences Certificate (CCP/CAP) n. 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

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

 Peekmed (www.peekmed.com) | Braga, Portugal


 Nov/2015 → present

 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 (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 Vrttools

Web developer (part-time)

 Ruiiur (www.ruiiur.pt) | Porto, Portugal

 Nov/2008 → May/2010 (1 year, 7 months)

 Web development: HTML, CSS, Javascript

Publications

Evaluation of the compressibility of Computer-Generated Holograms ^[Ps]

- 👤 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 ^[Jr]

- 👤 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 ^[Ps]

- 👤 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 ^[Cf]

- 👤 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 ^[Cf]

- 👤 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 ^[Th]

- 👤 W. Pimenta (2010)
- 📖 Master's thesis — Minho University
- 📍 Braga, Portugal

[Jr]: Journal article; [Cf]: Conference article; [Ps]: Poster; [Th]: Thesis

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

- Feb/2005 → present: [Volunteer editor](#) on [Wikipedia](#).
- Mar/2002 → Dec/2011 (approx. 10 years): [Columnist](#) in the Cape Verdean magazine [Artiletra](#).

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