

# 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) N.º F614065/2013

## Professional Experience

### Backend developer

🏠 Uphold ([www.uphold.com](http://www.uphold.com)) | Braga, Portugal  
🕒 Sep/2018 → present  
🔧 Working on apps interfacing with crypto and fiat payment networks

### Desktop software developer

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

### Research software developer

🏠 Vicomtech ([www.vicomtech.org](http://www.vicomtech.org)) | Donostia-San Sebastián, Spain  
🕒 Mar/2010 → Oct/2010 (*Erasmus academic internship*)  
🔧 Developed a 3D face recognition application in C++ using Qt and OpenCV

### Augmented Reality (AR) developer

🏠 CCG — Computer Graphics Center ([www.ccg.pt](http://www.ccg.pt)) | Guimarães, Portugal  
🕒 Jul/2009 → Jan/2010 (*research grant*)  
🔧 Built an experimental AR application with custom 3D modeling and animation

## Education

### PhD in Computer-generated holography

🏠 Minho University ([www.uminho.pt](http://www.uminho.pt)) | Braga, Portugal  
🕒 Feb/2011 → present (*paused*)  
🔧 Thesis: Exploiting Coherence in Rendering for Computer Generated Holography

### MSc in Computer Graphics and Artificial Intelligence

🏠 Minho University ([www.uminho.pt](http://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](http://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)

## Publications

### Selected academic publications

*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 2019 (Prague), 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 2019