

# JOÃO VENTURA

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## EXPERIENCE

### INVITED ADJUNCT PROFESSOR

#### **Instituto Politécnico de Setúbal, since November 2016**

Invited Adjunct Professor at Escola Superior de Tecnologia of I.P.S, with teaching subjects including mobile applications, web services, model-driven development and operating systems.

### BACKEND DEVELOPER

#### **Sherpany, 2015 – March 2016**

Backend web developer at Sherpany, a company that provides software services to investors and board members. The backend stack includes mostly Python, Django and the Django Rest Framework.

### FOUNDER & MAIN DEVELOPER

#### **Flatangle, 2014 – Present**

Started Flatangle, a web business focused on creating software tools . The technology stack includes Python, Flask, C, SQLite and several front-end technologies.

### MAIN DEVELOPER

#### **Skyplux, 2010 – 2013**

Designed and implemented Skyplux, a web and a desktop application. The stack included Python/Django, HTML5, CSS5, Javascript for the web app and Pyside for the desktop application.

### DOCTORAL RESEARCH FELLOW

#### **New University of Lisbon, 2009 – 2013**

Worked on the implementation of novel statistical and language-independent approaches to extract concepts and other data from texts. It led to publications on international conferences and a book.

### COMPUTER SCIENCE TEACHER

#### **Portugal, 2006 – 2009**

Taught introductory computer courses for students aged between 12 and 70 years old, and workshops related to image, sound and video processing using open-source tools

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## TECHNOLOGIES

### COMFORTABLE WITH

- Python
- Django / Flask
- PostgreSQL
- Celery
- Vagrant
- Version Control (Git)
- REST
- Javascript
- HTML5 / CSS3 / AJAX

### HAVE EXPERIENCE

- C / C++
- Java (Desktop and Android)
- Node.js
- SQL
- Gimp / Audacity / Muscore

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## EDUCATION

### PH.D IN COMPUTER SCIENCE

Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa, Portugal – December 2014

### MASTER'S DEGREE IN COMPUTER SCIENCE

Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa, Portugal – September 2008

### DEGREE IN COMPUTER SCIENCE

Escola Superior de Tecnologia, Instituto Politécnico de Setúbal, Portugal – September 2005

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## PUBLICATIONS

### CONFERENCES

- João Ventura and Joaquim Silva. Mining Concepts from Texts. In *Proceedings of the International Conference on Computational Science – ICCS 2012*, Omaha – USA, 2012.
- João Ventura and Joaquim Silva. New techniques for Relevant Word Ranking and Extraction. In *Progress in Artificial Intelligence*, Vol. 4874/2007, 2007.
- João Ventura and Bruno Silva. Aplicação para Biofeedback em Fisioterapia. In *Actas da Workshop PI-2005*, 2005.
- João Ventura, Raquel Gomes, Ricardo Seabra and Nuno Guedes. SoundSpaces: Behavior Based Control System for Multimedia Systems. In *Proceedings of the 10th annual SIGCSE conference on Innovation and technology in computer science education*, 2005.
- João Ventura and Nuno Guedes. Multimedia Behavior Box. In *Actas da Workshop PI-2003*, 2003.

### BOOK CHAPTERS

- João Ventura and Joaquim Silva. Automatic Extraction of Explicit and Implicit Keywords to build Document Descriptors. In *Progress in Artificial Intelligence – LNAI 8154*, Springer-Verlag, 2013.
- João Ventura and Joaquim Silva. Using Clusters of Concepts to Extract Semantic Relations from Standalone Documents. In *Progress in Artificial Intelligence – LNAI 8154*, Springer-Verlag, 2013.
- João Ventura and Joaquim Silva. Ranking and Extraction of Relevant Single Words in Text. In *Brain, Vision and AI*, 2008.

### BOOKS

- João Ventura. Automatic Extraction of Concepts from Texts – A statistical approach. *Lambert Academic Publishing*, ISBN 978-3-659-79460-5, 2015.

### THESIS AND DISSERTATIONS

- João Ventura. Automatic Extraction of Concepts from Texts and Applications. *PhD Thesis*, 2014.
- João Ventura. Extração de Unigramas Relevantes. *Master's Thesis*, 2008.
- João Ventura. Aplicação para Biofeedback em Fisioterapia. *Degree in CS*, 2005.