

# andré santos

web, language and bioinformatics

## about

### address

Av. Praia da Vitória,  
n 5, 4 DIR  
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Portugal

### phone

+351 927 715 379

### birth date

24 Feb 1988

### website

andrefs.com

### projects

github.com/andrefs

### mail

cv@andrefs.com

### twitter

@about\_andrefs

## languages

native portuguese  
fluent english  
basic spanish+french

## favorite tools

♥ Node.js, Perl, Git

## interests

web, open source software, Node.js, Perl, natural language processing, information retrieval, bioinformatics

## experience

2013–2015	<b>SAPO, Portugal Telecom (consultant from CoderHat)</b> Largest Portuguese web portal. Typical tasks included: <ul style="list-style-type: none"><li>development and support of multiple Node.js APIs,</li><li>management of several MongoDB databases,</li><li>development of Node.js and Perl frontend websites and backoffices</li></ul> <a href="http://sapo.pt">http://sapo.pt</a> , <a href="http://24.sapo.pt">http://24.sapo.pt</a> , <a href="http://jornais.sapo.pt">http://jornais.sapo.pt</a>	Web developer
2011–2013	<b>Subvisual (former GroupBuddies)</b> Typical tasks included: <ul style="list-style-type: none"><li>deployment and management of several Unix-based servers, with Apache and MySQL services, and Ruby on Rails applications</li><li>development of helper scripts to automate server management tasks</li></ul> <a href="https://subvisual.co">https://subvisual.co</a>	Sys admin
2012 Nov to 2013 Feb	<b>CEB, University of Minho</b> Collective Computation and Control in Complex Biochemical Systems	Researcher
2011 Apr to 2012 Sep	<b>CEHUM, University of Minho</b> Project Per-Fide: Portuguese in parallel with six languages: Español, Russian, Français, Italiano, Deutsch, English <a href="http://per-fide.di.uminho.pt/">http://per-fide.di.uminho.pt/</a>	Researcher
2009 Jul-Sep	<b>Sapo Summerbits'09</b> Open source software development Development of natural language processing tools to help in general orthography migration challenges, motivated by the 1990 Portuguese Language Orthographic Agreement. <a href="http://softwarelivre.sapo.pt/projects/bigorna/">http://softwarelivre.sapo.pt/projects/bigorna/</a>	Research grant

## technical skills

<b>Node.js</b> Express.js and custom-made web frameworks, ORMs, templating systems, ... <a href="https://www.npmjs.com/~andrefs">https://www.npmjs.com/~andrefs</a>	Experienced
<b>Perl</b> Including Moose, Dancer, Text::More and other Modern::Perl concepts. <a href="https://metacpan.org/author/ANDREFS">https://metacpan.org/author/ANDREFS</a>	Proficient
<b>Web development</b> Both server-side and client-side technologies: Node.js, Perl, Javascript, CSS	Proficient
<b>Other competences and interests</b> Git, $\LaTeX$ , Bash, Haskell, IoT, Elasticsearch, ontologies and structured formats	

## education

2011–2012	<b>MSc in Bioinformatics</b> Mining biological parameters from literature: an application to environmental decision support systems Development of a modular and extensible framework for building text mining applications for scientific literature, focused on numerical parameters and including a web interface. 120 ECTS, final grade 17/20	University of Minho, Portugal
2009–2011	<b>MSc in Natural Language Processing</b> Contributions for building a Corpora-Flow System Development of a system to support automatic handling of corpora (cleaning, validation, format conversion), document alignment and calculation alignability metrics of several types of documents. 120 ECTS, final grade 17/20	University of Minho, Portugal
2006–2009	<b>BSc in Software Engineering</b> 180 ECTS, final grade 15/20	University of Minho, Portugal

## training

2011 Jul	<b>Bang and Olufsen Summer School</b> Conceptual Design and Development of Innovative Products	Struer, Denmark
2010/11	<b>IdeaLab -- Business Ideas Lab</b>	TecMinho
2010 Jul	<b>Luso-Brazilian Evolutionary Computing School</b>	University of Minho, Guimarães
2010 Jun	<b>Catalyst 5.80</b>	Portuguese Perl Workshop'10
2005 Set	<b>Physics Summer School</b>	Faculty of Science, University of Porto
2005 Jul	<b>German Language Open Course</b>	Faculty of Arts, University of Porto

## other activities

**cesium** University of Minho's Software Engineering Student Center

2009/10	<b>Vice-president</b>	<a href="http://cesium.di.uminho.pt">http://cesium.di.uminho.pt</a>
2010/11	<b>Director at CAOS</b> CeSIUM's Open Source Support Center	<a href="http://caos.di.uminho.pt">http://caos.di.uminho.pt</a>

## programming challenges

2014	<b>SAPO Codebits Programming Contest</b> 2nd qualified team with a web application to extract relevant topics from a large collection of news.	<a href="https://github.com/andrefs/policias_beduinos">https://github.com/andrefs/policias_beduinos</a>
2012	<b>APPP Perl Code Sprint</b> 3rd qualified in the Perl programming competition organized by the Portuguese Perl Mongers group.	<a href="http://perl.pt">http://perl.pt</a>
2009	<b>Microsoft Imagine Cup'09</b> 5 <sup>th</sup> classified in the national finals.	Lisbon, Portugal
2008	<b>ACM South Western European Regional Contests</b> International programming competition.	Nuremberg, Germany
2007-2009	<b>Inter-University Programming Marathon</b> National ACM-style programming competition.	IST'07, UC'08, ESTGA'09

## sports

1999–2013	<b>Judo</b>	INATEL; University of Minho
2010-2013	<b>National Judo University Championships</b>	Aveiro'10, Lisbon'11, Aveiro '12, Coimbra '13
2007/08	<b>Basketball</b>	University of Minho
1998-2000	<b>Artistic gymnastics</b>	INATEL

## **publications**

### **articles in peer-reviewed journal**

The Per-Fide corpus: A new resource for corpus-based terminology, contrastive linguistics and translation studies

José João Almeida, Sílvia Araújo, Nuno Carvalho, Idalete Dias, Ana Oliveira, André Santos, Alberto Simões

Working with Portuguese Corpora (2014) pp. 177–200. Bloomsbury Publishing, 2014

Applying a text mining framework to the extraction of numerical parameters from scientific literature in the biotechnology domain

A. Santos, R. Nogueira, A. Lourenço

Advances in Distributed Computing and Artificial Intelligence Journal (ADCAIJ) 1 (June 2012) pp. 1–8. 2012

### **peer-reviewed conferences/proceedings**

Structural alignment of plain text books

André Santos, José João Almeida, Nuno Carvalho

Proceedings of the Eight International Conference on Language Resources and Evaluation (LREC'12), 2012, Istanbul, Turkey

A survey on parallel corpora alignment

A. Santos

MI-Star 2011, Braga, Portugal, 2011

Text::Perfide::Bookcleaner, a Perl module to clean and normalize plain text books

A. Santos, J.J. Almeida

Congreso Anual de la Sociedad Española para el Procesamiento del Lenguaje Natural (SEPLN2011), Huelva, Spain, 2011

Bigorna – A Toolkit for Orthography Migration Challenges

J.J. Almeida, A. Santos, A. Simoes

Proceedings of the Seventh International Conference on Language Resources and Evaluation (LREC'10), 2010, Valletta, Malta

AGile, a structured editor, analyzer, metric evaluator, and transformer for Attribute Grammars

A. Rocha, A. Santos, D. Rocha, H. Silva, J. Mendes, J. Freitas, M. Coelho, M. Regedor, D. Cruz, P.R. Henriques

INForum 2010, Braga, Portugal, 2010

### **dissertations**

Mining biological parameters from literature: an application to environmental decision support systems

André Santos

Master's dissertation, Departamento de Engenharia Biológica, Escola de Engenharia, Universidade do Minho, 2012

Contributions for building a Corpora-Flow system

A. Santos

Master's dissertation, Departamento de Informática, Escola de Engenharia, Universidade do Minho, 2011

## **presentations**

Mini aplicações web com Mojolicious::Lite

A. Santos

In Portuguese Perl Workshop'10, Porto, June 2010

Cleaning plain text books with Text::Perfide::BookCleaner

A. Santos

In Portuguese Perl Workshop'11, Lisbon, September 2011

## ElastoMania

A. Santos

In SAPO Codebits VII, Introduction to ElasticSearch, 2014

## Building your own CPAN with Pinto

A. Santos

In Portuguese Perl Workshop'13, 2013

## Dist::Zilla

A. Santos

In Portuguese Perl Workshop'12, 2012

## “Perl is dead” is dead

A. Santos

In Sapo Codebits VI, Overview on Perl's history and current state, 2012

## Preparação de livros para alinhamento

A. Santos

In I Jornadas Internacionais Per-Fide: Corpora e Tradução, 2011

## Detecção e Correção Parcial de problemas na Conversão de Formatos

A. Santos

In I Workshop Per-Fide: Construção, exploração e aplicação de Corpora Paralelos. 2010