

# andr santos

nlp, webdev and sysadmin

## about

### address

Pq. Resid. Fonte Seca  
LT 8B 1oE  
4715-229 Braga  
Portugal

### phone

+351 927 715 379

### mail

andrefs@cpan.org

## languages

native portuguese  
fluent english  
basic spanish+french

## programming

♥ Perl (Moose, Dancer,  
Catalyst, DBIC)  
Bash, L<sup>A</sup>T<sub>E</sub>X

## interests

open source software, Perl, natural language processing, information retrieval, bioinformatics

## education

- since 2010 **MSc in Bioinformatics** University of Minho, Portugal  
*Mining biological parameters from literature: an application to environmental decision support systems*
- 2009–2011 **MSc in Natural Language Processing** University of Minho, Portugal  
*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
- 2006–2009 **BSc in Software Engineering** University of Minho, Portugal  
180 ECTS, final grade 15/20

## experience

- 2011 Apr to 2012 Sep **CEHUM, University of Minho** Researcher  
Project Per-Fide: Portuguese in parallel with six languages: Espa ol, Russian, Fran ais, Italiano, Deutsch, English
- since 2011 **GroubBuddies** System administrator  
Startup company which develops web-based solutions for groups and organizations. Typical tasks include:
- deployment and management of several Unix-based servers, with Apache and MySQL services
  - managing Ruby on Rails applications on a production environment
  - managing Git repositories
  - development of helper scripts to automate and facilitate server management
- 2009 Jul-Sep **Sapo Summerbits'09** Research Internship  
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.

## technical skills

- Perl** Proficient  
Including Moose, Catalyst, Dancer, DBIx::Class and other Modern::Perl concepts.
- Web development** Proficient  
Mostly using Perl frameworks, but also Bootstrap from Twitter, CSS, Javascript.
- Ontologies and structured documents** Experienced  
XML, XQuery, XPath, JSON and ontology formats: OWL, OBO, RDF.

## Systems administration, programming tools and methods

Experienced

Bash, Subversion, Git, L<sup>A</sup>T<sub>E</sub>X, Apache, Agile.

## Other programming languages

SQL, C, Java, PHP, UML, Haskell, Ruby, Pascal.

## training

2011 Jul	<b>Bang and Olufsen Summer School</b>	Struer, Denmark
	Conceptual Design and Development of Innovative Products	
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 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>	<a href="http://caos.di.uminho.pt">http://caos.di.uminho.pt</a>
	CeSIUM's Open Source Support Center	

## programming challenges

2012	<b>APPP Perl Code Sprint</b>	<a href="http://perl.pt">http://perl.pt</a>
	3 <sup>rd</sup> qualified in the Perl programming competition organized by the Portuguese Perl Mongers group.	
2009	<b>Microsoft Imagine Cup'09</b>	Lisbon, Portugal
	5 <sup>th</sup> classified in the national finals.	
2008	<b>ACM South Western European Regional Contests</b>	Nuremberg, Germany
	International programming competition.	
2007-2009	<b>Inter-University Programming Marathon</b>	IST'07, UC'08, ESTGA'09
	National ACM-style programming competition.	

## sports

since 1999	<b>Judo</b>	INATEL; University of Minho
2010-2012	<b>National Judo University Championships</b>	Aveiro'10, Lisbon'11, Aveiro '12
2007/08	<b>Basketball</b>	University of Minho
1998-2000	<b>Artistic gymnastics</b>	INATEL

## publications

### articles in peer-reviewed journal

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 (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**

Contributions to building a Corpora-Flow system

A. Santos

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

## **presentations**

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

A. Santos

*In Portuguese Perl Workshop'11, Lisbon, September 2011*

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*

Mini aplicações web com Mojolicious::Lite

A. Santos

*In Portuguese Perl Workshop'10, Porto, June 2010*