

# andrés santos

web, language and semantics

## about

### address

Pq. Resid. Fonte Seca,  
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### phone

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### birth date

24 Feb 1988

### contacts

andrefs.com  
github.com/andrefs   
cv@andrefs.com   
@about\_andrefs 

## languages

native portuguese  
fluent english  
basic spanish+french

## favorite tools

♥ Node.js, Perl, Git,  
MongoDB

## interests

Fullstack developer with backend preference, working with Node.js, React, JavaScript, and MongoDB. Interested in semantic web, natural language processing, functional programming, machine learning and web development.

## technical skills

Languages **Node.js, JavaScript and Perl**  
Also Haskell,  $\text{\LaTeX}$   
Databases **MongoDB**  
Also MySQL, PostgreSQL, ElasticSearch  
Frameworks **Express, Dancer**  
Also React, Mocha, Chai, Sinon  
Other tools **Git, Bash**

## experience

since Apr 2017	<b>INESC TEC</b>	Research Assistant
2016 Jul to 2017 Mar	<b>Contentful GmbH</b> Headless API-first CMS. 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://contentful.com">http://contentful.com</a>	JavaScript Backend Engineer
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 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> UX, UI, web and mobile development company Typical tasks included: <ul style="list-style-type: none"><li>deployment and management of 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. Activities: <ul style="list-style-type: none"><li>parsing gene expression rules and microarray data</li><li>simulation gene expression</li><li>comparing simulated and experimentally obtained network states</li></ul>	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 See activities description on NLP MSc in Education. <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://natura.di.uminho.pt/wiki/doku.php?id=ferramentas:bigorna">http://natura.di.uminho.pt/wiki/doku.php?id=ferramentas:bigorna</a>	Research grant

## education

since Oct 2017	<b>MAP-i Doc. Prog. in Computer Science</b>	Fac. of Sciences of Univ. of Porto, Portugal
	Semantic measures in large semantic graphs (ongoing)	
	180 ECTS	
2011–2012	<b>MSc in Bioinformatics</b>	University of Minho, Portugal
	Mining biological parameters from literature: an application to environmental decision support systems (thesis)	
	Development of a framework for building text mining applications for scientific literature, focused on numerical parameters and supported by 3rd-party tools and expert-curated ontologies.	
	120 ECTS, final grade 17/20	
2009–2011	<b>MSc in Natural Language Processing</b>	University of Minho, Portugal
	Contributions for building a Corpora-Flow System (thesis)	
	Development of a system to support automatic handling of corpora (cleaning, validation, format conversion), document alignment and calculation of alignability metrics of several types of documents.	
	120 ECTS, final grade 17/20	
2006–2009	<b>BSc in Software Engineering</b>	University of Minho, Portugal
	Typical CompSci course	
	180 ECTS, final grade 15/20	

## 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 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>	<a href="http://caos.di.uminho.pt">http://caos.di.uminho.pt</a>
	CeSIUM's Open Source Support Center	

## programming competitions

2014	<b>SAPO Codebits Hackathon</b>	<a href="https://github.com/andrefs/policias_beduinos">https://github.com/andrefs/policias_beduinos</a>
	2nd qualified team with a web application to extract relevant topics from a large collection of news.	
2012	<b>APPP Perl Code Sprint</b>	<a href="http://perl.pt">http://perl.pt</a>
	3rd 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

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

### chapter

José João Almeida, Sílvia Araújo, Nuno Carvalho, Idalete Dias, Ana Oliveira, André Santos, and Alberto Simões. “The Per-Fide corpus: A new resource for corpus-based terminology, contrastive linguistics and translation studies”. In: Working with Portuguese Corpora. Ed. by Telma de Lurdes São Bento Ferreira Tony Berber Sardinha. Bloomsbury Publishing, 2014. Chap. 9, pp. 177–200.

### 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, and 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, and 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 and 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, and 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. da Cruz, and 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 and workshops

### Aprender por projetos com Raspberry Pi

Luís Santos and André Santos

jCDE2016 - IV Jornada Conteúdos Digitais para a Educação, 2016

### “Perl is dead” is dead

A. Santos

In Sapo Codebits VI, 2012

### Dist::Zilla

A. Santos

In Portuguese Perl Workshop'12, 2012

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

A. Santos

In Portuguese Perl Workshop'11, 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, 2010