

# NunoCardoso

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## Personal Information

**Name** José Nuno de Pinho Cardoso  
**Date of Birth** 27-05-1988

**Place of Birth** Porto – Portugal  
**Nationality** Portuguese

## Education

### BASIC EDUCATION

ÉCOLE FRANÇAISE DE PORTO	09-1990 ⇒ 06-2000	Porto
ESCOLA BÁSICA DA SENHORA DA HORA	09-2000 ⇒ 06-2003	Matosinhos

### SECONDARY EDUCATION

CURSO TECNOLÓGICO DE INFORMÁTICA ESCOLA SECUNDÁRIA DA SENHORA DA HORA	★★★★☆ (17.5/20)	09-2003 ⇒ 06-2006	Matosinhos
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### HIGHER EDUCATION

MESTRADO INTEGRADO EM ENGENHARIA INFORMÁTICA FACULDADE DE ENGENHARIA DA UNIVERSIDADE DO PORTO	★★★★☆ (16/20)	09-2006 ⇒ 06-2011	Porto
PROGRAMA DOUTORAL EM ENGENHARIA INFORMÁTICA FACULDADE DE ENGENHARIA DA UNIVERSIDADE DO PORTO		09-2011 ⇒ 2016	Porto

### ONLINE

MACHINE LEARNING COURSE – STANFORD UNIVERSITY	★★★★★ (98.8/100)	08-2013 ⇒ 2016	Coursera
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## Experience

### VOCATIONAL

#### Project/Implementation Manager

LABORATÓRIO DE GESTÃO DE PROJECTOS (FEUP/BANCO BPI) ★★★★★ (17/20)

Porto – Portugal  
02-2010 ⇒ 07-2010

#### Researcher

CENTRO DE INFORMÁTICA PROF. CORREIA DE ARAÚJO

Porto – Portugal  
2010 ⇒ 2011

#### Teaching assistant (Projecto FEUP)

FACULDADE DE ENGENHARIA DA UNIVERSIDADE DO PORTO

Porto – Portugal  
09-2010 ⇒ 12-2010

#### Lecturer (Programming I and II)

FACULDADE DE ENGENHARIA DA UNIVERSIDADE DO PORTO

Porto – Portugal  
09-2013 ⇒ 01-2015

### MISCELLANEOUS

## Awards

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### REGIONAL PROGRAMMING CONTESTS

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1st Place	Concurso de Programação para Alunos do Secundário (CPAS'06) 2006	Porto
1st Place	Concurso de Programa da Universidade do Porto (CPUP'07) 2007	Porto
1st Place	Concurso de Programa da Universidade do Porto (CPUP'08) 2008	Porto
4th Place	Prémio de Programação Universidade Portucalense (PPUP'04) 2004	Porto

### NATIONAL PROGRAMMING CONTESTS

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1st Place	Torneio de Programação para Alunos do Secundário (ToPAS'06) 13-05-2006	Porto
1st Place (unofficial)	Maratona Inter-Universitária de Programação (MIUP'06) 10-2006	Covilhã
1st Place	Torneio Inter-Universitário de Programação (TIUP'07) 2007	Porto
1st Place	Maratona Inter-Universitária de Programação (MIUP'07) 20-10-2008	Lisboa
2nd Place	Torneio de Programação para Alunos do Secundário (ToPAS'05) 14-05-2005	Porto
2nd Place	Torneio Inter-Universitário de Programação (TIUP'08) 2008	Porto
2nd Place	Maratona Inter-Universitária de Programação (MIUP'08) 25-10-2008	Coimbra
3rd Place	Torneio de Programação para Alunos do Secundário (ToPAS'04) 15-05-2004	Porto

### INTERNATIONAL PROGRAMMING CONTESTS

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9th Place	South Western European Regional Contest (SWERC'08) 23-11-2006	Nuremberg
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### INTERNATIONAL CONFERENCES

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Best Paper Award 25th International Conference on Principles of Diagnosis (DX'14)  
An Efficient Distributed Algorithm for Computing Minimal Hitting Sets  
09-2014

Graz

Best Paper Award Nominee 25th International Conference on Principles of Diagnosis (DX'14)  
Enhancing Reasoning Approaches to Diagnose Functional and Non-Functional Errors  
09-2014

Graz

## Publications

- Nuno Cardoso and Rui Abreu. A kernel density estimate-based approach to component goodness modeling. In *Proceedings of the 27<sup>th</sup> AAAI Conference on Artificial Intelligence*, AAAI'13, 2013
- Nuno Cardoso and Rui Abreu. A distributed approach to diagnosis candidate generation. In *Proceedings of the 16<sup>th</sup> Portuguese Conference on Artificial Intelligence*, EPIA'13, pages 175–186, 2013
- Nuno Cardoso and Rui Abreu. MHS<sup>2</sup>: A map-reduce heuristic-driven minimal hitting set search algorithm. In *Proceedings of the International Conference on Multicore Software Engineering, Performance, and Tools*, MUSEPAT'13, pages 25–36, 2013
- Nuno Cardoso and Rui Abreu. An efficient distributed algorithm for computing minimal hitting sets. In *Proceedings of the 25<sup>th</sup> International Workshop on Principles of Diagnosis*, DX'14, 2014
- Nuno Cardoso and Rui Abreu. Enhancing reasoning approaches to diagnose functional and non-functional errors. In *Proceedings of the 25<sup>th</sup> International Workshop on Principles of Diagnosis*, DX'14, 2014

## Committees

### Organization Co-chair

7TH DOCTORAL SYMPOSIUM ON INFORMATICS ENGINEERING

Porto

01-2012

## Grants

### PhD Scholarship

FUNDAÇÃO PARA A CIÊNCIA E TECNOLOGIA

01-2012 ⇒ 12-2015

## Languages

### NATURAL

Portuguese ★★★★★ (Native)

English ★★★★★ (Fluent)

French ★★★★★ (Fluent)

Spanish ★☆☆☆ (Basic)

### ARTIFICIAL

C ★★★★★ (Proficient)

C++ ★★★★★ (Proficient)

Java ★★★★★ (Proficient)

Python ★★★★★ (Proficient)

Bash/ZSH ★★★★★ (Proficient)

PHP ★★★★★ (Good Knowledge)

SQL ★★★★★ (Good Knowledge)

Javascript ★★★★★ (Good Knowledge)

eLisp ★☆☆☆ (Basic Knowledge)

Prolog ★☆☆☆ (Basic Knowledge)

## Computer Skills

### OPERATING SYSTEMS

Linux ★★★★★ (Proficient)

Windows ★☆☆☆ (Very Basic Knowledge)

### FRAMEWORKS

**Django** ★★☆☆ (Proficient)  
**OpenCV** ★☆☆☆ (Basic Knowledge)

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## DATABASES

**MySQL** ★★☆☆ (Good Knowledge)  
**PostgresSQL** ★★☆☆ (Good Knowledge)

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## OFFICE

**Latex** ★★☆☆ (Proficient)  
**GIMP** ★★☆☆ (Proficient)  
**Org Mode** ★★☆☆ (Good Knowledge)

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## OTHER

**Networking** ★★☆☆ (Proficient)  
**Parallel Computing** ★★☆☆ (Proficient)  
**Machine Learning** ★★☆☆ (Proficient)

# Hobbies/Interests

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## MUSIC

**Drums** ★★☆☆ (Good Knowledge)  
**Guitar** ★★☆☆ (Good Knowledge)

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## DIY

**Electronics** ★★☆☆ (Good Knowledge)  
**Woodworking** ★★☆☆ (Good Knowledge)  
**Masonry** ★★☆☆ (Good Knowledge)  
**Metalworking** ★☆☆☆ (Good Knowledge)

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## MISCELLANEOUS

**Chess** ★☆☆☆ (Basic Knowledge)  
**Physics** ★☆☆☆ (Basic Knowledge)

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## PROJECTS

- <http://www.instructables.com/id/Cheap-cyclone-based-vacuum-cleaner-made-from-scrat/>