

Eu, Pedro Filipe Fidalgo de Sousa Machado, envio em anexo um arquivo que contem os seguintes ficheiros:

- **Statement of Purpose** (em Inglês): StatementOfPurpose_PedroFidalgoMachado.pdf
- **Curriculum Vitae** (em Inglês): Curriculum_PedroFidalgoMachado.pdf
- **Plano da Licenciatura**: PlanoAcadémico_PedroFidalgoMachado.pdf
- **First Certificate in English**: FCE_PedroFidalgoMachado.pdf
- **Certificado da Escola de Verão KDubiq**: KDubiq_PedroFidalgoMachado.pdf
- **Certificado da Conferência EPIA07**: EPIA_PedroFidalgoMachado.pdf

Com os melhores Cumprimentos,

Pedro Fidalgo Machado

Statement of Purpose

Pedro Filipe Fidalgo de Sousa Machado

Rua de Ceuta, n° 118, Andar 6, 4150-190 Porto - Portugal

24 of April, 2008

Subject: *Statement of Purpose*

I am applying for admission to the MAP-i doctoral programme in Computer Science and I am also applying to a MAP-i Grant. I intend by enrolling in this Ph.D. programme to increase my knowledge and to improve my skills in my research areas of interest. I am sure that this is essential to achieve my goal of pursuing a career in research and teaching in a university, or in a company with strong spirit of innovation. Being holder of the Ph.D. degree not only certifies capabilities, but more importantly will allow me to develop my skills in research during this period.

I believe that my undergraduate course in Mathematics and Computer Science at University of Minho, provided me with a strong background in mathematics and computer science, as well as the flexibility to adapt to new concepts. I have also developed my skills to use different levels of abstraction.

Since March 2007, I participate in the project Site-O-Matic at the Laboratory of Artificial Intelligence and Decision Support (**LIAAD**) of the University of Porto and member of INESC Porto L. A. (Associated Laboratory) as a Research Assistant. There, I have an Undergraduate Scientific Scholarship funded by **FCT**.

I am part of a multidisciplinary team which involves researchers from several faculties (FEP, FEUP, FCUP) and universities (UM, UBI). My participation in this project began to be carried out under my internship. As a result of that work, I was invited to continue this cooperation. It was mainly during this period, but also during my undergraduate course, that I gained the curiosity and enthusiasm for research, in particular my interest in Data Mining.

The Site-O-Matic project aims to develop a comprehensive framework for automating several of the management activities of a Web site, such as the retrieval of new, relevant content, monitoring and management of existing content and how it is structured, provision of recommendation and personalization of the structure.

I am developing a platform that allows the acquisition of quality web data, as well as online automatic transformation and customization of the site's structure and interface. This involves the use of Data Mining techniques for web adaptation. Collaborative filtering, Markov models and Association Rules are some of the techniques I have been working with.

From that work resulted an article of which I am a co-author. That article was published in the **Local Proceedings of the 13th Portuguese Conference on Artificial Intelligence, EPIA 2007 (ISBN 978-989-95618-0-9, p.487-499, Guimarães, Portugal, 2007)**. In that

paper we propose a data warehouse where all the information about the activity of the site is stored, and relate it with the most common Web mining applications.

In the last month of March and April we submitted two papers of which I am a co-author, one to the 19th Brazilian Symposium on Artificial Intelligence (**SBIA 2008**) and other to the 6th Workshop on Intelligent Techniques for Web Personalization & Recommender Systems (**ITWP 2008**).

I also participated in several scientific events like the **13th Portuguese Conference on Artificial Intelligence (EPIA 2007)**, **TEIA - Search Information and Artificial Intelligence**, and the **2nd European Summer School on Knowledge Discovery for Ubiquitous Computing (Kdubiq 2008)**. In these events I had the opportunity to meet with professors and researchers of several universities of different countries and get to know the work they have been doing. The participation in these events has contributed significantly to increase my interest in the area.

I was also selected to participate in July, on behalf of the University of Minho, in the course Erasmus IP "**Conceptual Design and Development of Innovative Products Summer School 2008**" at the Engineering College of Aarhus in Denmark.

I will formally finish my undergraduate course, in May, after I present a practical work for the discipline of Formal Methods II in the first week of May.

I have also the **First Certificate in English (FCE) University of Cambridge - ESOL Examinations**.

I hope that the scientific committee finds my background and experience in research adequate to the requirements of MAP-i Ph.D. program.

Best regards,

Pedro Filipe Fidalgo de Sousa Machado

PS: I am applying also for a research grant from the program.

PEDRO FIDALGO MACHADO

PERSONAL DATA

Name: Pedro Filipe Fidalgo de Sousa Machado

DOB: 03/30/1983

Nationality: Portuguese

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PROFESSIONAL EXPERIENCES

- **Laboratory of Artificial Intelligence and Decision Support of the University of Porto – University of Porto – Portugal: March/2007 – Today.**

EDUCATION

- **UnderGraduation: October/2001 – Today.** Undergraduation 5-year course in Mathematics and Computer Sciences. University of Minho (UM) – Braga – Portugal.

(I will formally finish my undergraduate course, in May, after I present a practical work for the discipline of Formal Methods II in the first week of May)

Average (Parcial) : 13.11

- **First Certificate in English (FCE):** December/2001. University of Cambridge – ESOL Examinations.

MAIN TOPICS OF INTEREST

1. Data Mining
2. Web Intelligence.
3. Recommender Systems.
4. Web Services.

PARTICIPATION IN RESEARCH PROJECTS

■ Site-O-Matic – Web Site Automation.

Objectives: Development of a platform and a methodology for automation several of the management activities of a web site, such as the retrieval of new and relevant content, monitoring and management of existing content and how it is structured, provision of recommendation and personalization of the structure.

Supervisors: Professor Alípio Mário Guedes Jorge

Duration: from March/2007 to November/2008.

Project sponsored by Foundation for Science and Technology (FCT) and POSC (POSC/EIA/58367/2004), and developed at the Laboratory of Artificial Intelligence and Decision Support of the University of Porto (LIAAD – INESC PORTO L.A.) - Porto - Portugal.

PUBLICATIONS

■ Conference Proceedings:

Full Papers

Domingues, M. A.; Jorge, A. M.; Soares, C.; Leal, J. P.; **Machado, P.** “A Data Warehouse for Web Intelligence”. In: Proceedings of the Workshop on Business Intelligence 2007 in the 13th Portuguese Conference on Artificial Intelligence (EPIA 2007), **ISBN 978-989-95618-0-9, p.487-499**, Guimarães, Portugal, 2007.

■ Thesis:

Machado, P. “Integration and Development of Applications for Web Adaptative”. Braga, Portugal, 2007. Undergraduation Thesis, 93 pages (Written in Portuguese).

Supervisors: Professor Alípio Mário Guedes Jorge; Professor Paulo Jorge de Sousa Azevedo.

- **Submitted Papers**

- Domingues, M. A.; Jorge, A. M.; Soares, C.; Leal, J. P.; **Machado, P.**
“A Platform to Support Web Site Adaptation and Monitoring of its Effects: A Case Study”.
6th Workshop on Intelligent Techniques for Web Personalization & Recommender Systems ITWP 2008 - **waiting for acceptance.**
- Domingues, M. A.; Jorge, A. M.; Soares, C.; Leal, J. P.; **Machado, P.**
“IGZP: An End-to-End Experiment with Web Site Automation”.
Submitted to the 19th Brazilian Symposium on Artificial Intelligence SBIA'2008 - **waiting for acceptance.**

PARTICIPATION IN SCIENTIFIC AND TECHNOLOGICAL EVENTS

- **Erasmus IP - Conceptual Design and Development of Innovative Products Summer School 2008.** (on behalf of the University of Minho)
Place: Engineering College of Aarhus, Denmark
Date: from 30/06/2008 to 18/07/2008.
- **2nd European Summer School on Knowledge Discovery for Ubiquitous Computing.**
Place: University of Porto, Portugal
Date: from 2/03/2008 to 9/03/2008.
- **13th Portuguese Conference on Artificial Intelligence (EPIA 2007).**
Place: Hotel of Guimarães, Guimarães, Portugal.
Date: from 03/12/2007 to 07/12/2007.
- **TEIA - Search Information and Artificial Intelligence**
Place: Porto Institute of Engineering
Date: 10/17/2007.

LANGUAGES

- **Portuguese:**
Reading, Writing and Conversation – Native.
- **English:**
Reading, Writing and Conversation – Good.

TECHNICAL SKILLS

- Experience in Data Mining and Web Mining, in Development of Web Based Applications and Automation of Web Sites, in Modeling of Databases (relational).
- Computer Languages and Software Engineering: Haskell, JavaScript/Ajax, C, PHP, R, Prolog. Strong experience in Java. UML and VDM++.
- Web Standards: HTML/XHTML, CSS, XML, DTD, XML SCHEMA, SAX, DOM and XSLT.
- Web Services: Apache Tomcat.
- Operational Systems: Windows, Linux.
- Databases: Oracle and MySQL.
- Other tools: Eclipse Framework.



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o meu plano

Nome: **Pedro Filipe Fidalgo de Sousa Machado**

Curso: **Matemática e Ciências de Computação (Licenciatura), 5º ano**

Visualizar: ▼

ficha pessoal

o meu plano

as minhas pautas

situações irregulares

propinas

pagamentos multibanco

boletim de inscrição

ficha para o docente

.

alterar password

alterar dados pessoais

preferências/menu simples

Disciplina	Nota	Melhoria?	Ano Lectivo	Ano	Tipo	Regime
1º ano						
Álgebra Linear	16	N	2002	1	N	1
Álgebra Linear e Geometria Analítica	13	N	2003	1	N	2
Análise	11	N	2004	1	N	2
Cálculo	10	N	2003	1	N	1
Matemática Discreta I	10	N	2002	1	N	1
Matemática Discreta II	13	N	2002	1	N	2
Paradigmas da Programação I	11	N	2002	1	N	1
Paradigmas da Programação II	15	S	2004	1	N	2
2º ano						
Arquitecturas de Computadores	15	N	2005	2	N	1
Autómatos e Máquinas Turing	12	N	2003	2	N	2
Elementos Lógicos da Programação I	14	N	2005	2	N	1
Elementos Lógicos da Programação II	10	N	2004	2	N	2
Matemática Computacional	12	N	2003	2	N	2
Métodos de Programação I	18	N	2005	2	N	1
Métodos de Programação II	13	N	2004	2	N	2
Paradigmas da Programação III	12	N	2004	2	N	1
Paradigmas da Programação IV	16	S	2005	2	N	2
Tópicos de Análise	13	N	2004	2	N	1
3º ano						
Álgebra	12	N	2006	3	N	1
Análise Numérica I	11	N	2005	3	N	1
Análise Numérica II	10	N	2006	3	N	2
Elementos Lógicos da Programação III	10	N	2006	3	N	2
Métodos de Programação III	13	N	2004	3	N	1
Métodos de Programação IV	14	N	2005	3	N	2
Probabilidades e Estatística	11	N	2006	3	N	2
Processamento de Linguagens I	15	N	2004	3	N	2
Sistemas Operativos I	13	N	2006	3	N	1
4º ano						

Bases de Dados	15	N	2006	4	N	1
Comunicações por Computador I	12	N	2007	4	N	1
Estatística Aplicada	10	N	2007	4	N	2
Investigação Operacional I	12	N	2006	4	N	1
Métodos Formais de Programação I	13	N	2007	4	N	1
Métodos Formais de Programação II	0		2008	4	N	2
Opção I	12	N	2005	4	O	2
Opção II	11	N	2006	4	O	2
Representação do Conhecimento I	15	N	2007	4	N	1
5º ano						
Estágio ou Projecto	17	N	2007	5	E	2
Opção III	10	N	2007	5	O	1
Opção IV	15	N	2007	5	O	1
Opção V	15	N	2007	5	O	1
Opção VI	16	N	2007	5	O	1

Média parcial: 13,11**Pedro Filipe Fidalgo de Sousa Machado**

segunda-feira, 28.04.2008 | © 2008 Universidade do Minho

Parecer

O *Pedro Filipe Fidalgo de Sousa Machado* foi meu aluno durante a sua licenciatura em Matemática e Ciências da Computação da Universidade do Minho.

Fui orientador do seu estágio curricular de final de licenciatura, que decorreu no LIAAD (Universidade do Porto) integrado no projecto FCT - POSC/EIA/58367/2004 projecto *Site-o-Matic*. Durante o decorrer do estágio tive oportunidade de observar o carácter lutador e empenhador do Pedro Machado bem como a sua capacidade de organização, inovação e de exploração em novos domínios, características ideias para quem quer seguir uma carreira de investigação. Após o final do estágio, devido às suas qualidades, o Pedro foi seleccionado para preencher a posição de bolseiro de investigação de uma bolsa FCT-BI dentro do projecto *site-o-matic*. A sua aptidão intelectual e os seus conhecimentos em tecnologias da informação solidificaram a minha decisão em o recomendar como futuro aluno do programa doutoral MAP-i.

Universidade do Minho, 15 de Abril de 2008

Paulo Jorge de Sousa Azevedo
Professor Auxiliar
Departamento de Informática
Universidade do Minho

TO WHOM IT MAY CONCERN

Pedro Filipe Fidalgo de Sousa Machado has been working as a research assistant, under the guidance of Alípio Jorge, at the Laboratório de Inteligência Artificial e Apoio à Decisão (LIAAD, the University of Porto Artificial Intelligence and Decision Support Laboratory) since May 2007. He has been collaborating in the FCT funded project “Site-O-Matic: Web site Automation”. He has showed the adequate skills and knowledge for the job. He has a very good background in programming and in computing, especially in Web systems. He is a determined and hard working person, and also a good colleague. I strongly believe he has enough potential for successfully going through a PhD programme in Informatics.

Porto, 22nd April 2008

Pavel B. Brazdil,

Professor Catedrático at Faculdade de Economia do Porto (FEP.UP)

Head of LIAAD / INESC Porto L.A.

Alípio Mário Guedes Jorge

Professor Auxiliar at Faculdade de Economia do Porto (FEP.UP)

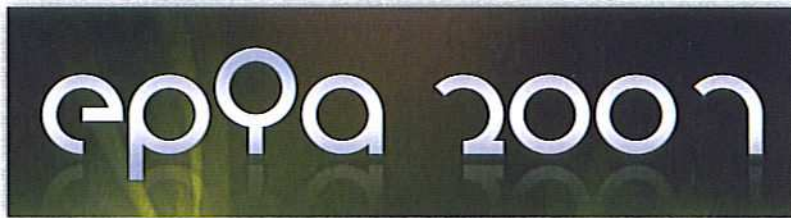
Member of LIAAD / INESC Porto L.A.

From zp@dcc.fc.up.pt Thu Apr 24 11:03:31 2008
To: mapi@map.edu.pt
Subject: Carta de =?ISO-8859-1?Q?recomenda=E7=E3o=3A_Pedro_Machado?=-

Pedro Filipe Fidalgo de Sousa Machado é bolseiro do projecto de investigação Site-O-Matic em que eu também participo. Nesse contexto tive oportunidade de orientar parte do seu trabalho no último ano. Desta experiência devo destacar a sua facilidade de aprendizagem, a sua grande capacidade de trabalho e o seu elevado sentido de responsabilidade. Estas características serão sem dúvida uma mais valia para a prossecução dos seus estudos de doutoramento, pelo que não tenho dúvidas em o recomendar à comissão científica do MAP-I.

José Paulo Leal

Professor Auxiliar do
Departamento de Ciências de Computadores
Universidade do Porto



CERTIFICATE OF ATTENDANCE

awarded to

Pedro Filipe Fidalgo de Sousa Machado

in recognition of participation

and valuable contribution to the

13th Portuguese Conference on Artificial Intelligence

Hotel de Guimarães, Portugal

December 3 – 7, 2007



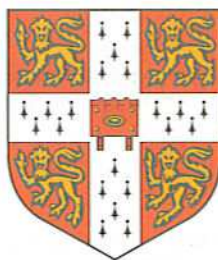
José Neves
Conference co-chair



Manuel Santos
Conference co-chair



José Machado
Conference co-chair



UNIVERSITY *of* CAMBRIDGE
Local Examinations Syndicate
INTERNATIONAL EXAMINATIONS

First Certificate in English

This is to certify that

PEDRO FILIPE FIDALGO DE SOUSA MACHADO

has been awarded

CERTIFICATE GRADE C

in the Examination for the
First Certificate in English

Date of Examination **DECEMBER 2001**

Place of Entry **OPORTO**

Reference Number **01CPT0050135**

Certificate Number 7503276

Vice-Chancellor
University of Cambridge



Certificate of Participation

We hereby confirm that:

PEDRO MACHADO

participated in the 2nd KDubiq Summer School held in Porto, 2-9 March 2008. The school covered 35 hours on topics like embedded systems, wireless sensor networks, data streams, distributed data mining, privacy issues, web 2.0 and grid aspects of data mining. All courses went along with exercises for hands-on experience.

Porto, 9 March 2008

Morik
Katharina Morik

João Gama
João Gama