



## Paulo Jorge Pereira Martins

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**Date of birth:** 15/01/1987 | **Nationality:** Portuguese | **Gender:** Male |

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<http://www.paulojorgepm.net/portfolio?lang=en> |

Avenida Ponte do Porto, nº31, Pousada, 4710-730, Braga, Portugal

### ● WORK EXPERIENCE

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2021 – 2021 – Braga, Portugal

**ASSISTANT PROFESSOR – UNIVERSITY OF MINHO / SCHOOL OF ENGINEERING**

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Assistant professor of "Applied Informatics (Markup Languages)". University of Minho, School of Engineering (Department of Informatics).

2018 – CURRENT – Braga, Portugal

**INFORMATICS TECHNICIAN (R&D INFORMATICS SUPPORT) – INSTITUTE OF ARTS AND HUMANITIES AT THE UNIVERSITY OF MINHO**

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Technical support (informatics) for two Research Centers at the University of Minho (CEHUM and CEPS): Servers maintenance; software programming; web development; reports and statistics; data mining; R&D projects support; digital image; organization of events; management of digital publications (OJS).

Website: <http://cehum.ilch.uminho.pt/staff/en>

07/2019 – 07/2019 – Kanazawa, Japan

**ERASMUS+ STAFF MOBILITY FOR TEACHING AND TRAINING – EUROPEAN UNION**

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Mobility grant (Erasmus Mundus protocol) for traineeship at the Kanazawa University (Japan).

Summary/video: <https://www.kanazawa-u.ac.jp/e-news/69404>

2017 – 2017

**SCHOLARSHIP IN SCIENCE AND TECHNOLOGY MANAGEMENT (BGCT) – CENTRE FOR ETHICS, POLITICS AND SOCIETY / CEHUM**

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<http://ceps.ilch.uminho.pt/index/en>

2013 – 2016 – Braga, Portugal

**RESEARCH FELLOWSHIP (FCT BI) – CENTER FOR HUMANISTIC STUDIES OF THE UNIVERSITY OF MINHO**

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Research and IT support for CEHUM's strategic project. Researcher on Computational Linguistics / NLP.

[https://www.fct.pt/apoios/unidades/consulta/vglobal\\_projecto.phtml.en?idProjecto=132973&idElemConcurso=7617](https://www.fct.pt/apoios/unidades/consulta/vglobal_projecto.phtml.en?idProjecto=132973&idElemConcurso=7617)

2011 – 2012 – Portugal

**ASSISTANT PROFESSOR – UNIVERSITY OF MINHO**

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Assistant professor (lecturer) of "Digital Humanities: Information and communications technology" for three graduation courses at the Institute of Arts and Humanities (ILCH), University of Minho.

<https://www.uminho.pt/EN>

2012 – 2012

## TEACHER (SHORT COURSE) – UNIVERSITY OF MINHO

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Trainer in a series of workshops for the short course "Multi\_feel 2012", held at the Institute of Arts and Humanities at the University of Minho. Taught modules: "Web development" and "Video editing".  
Certificate: <https://tinyurl.com/yydht2qx>

2008 – 2009 – Portugal

## JUNIOR RESEARCH FELLOWSHIP (BII) – UNIVERSITY OF MINHO

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Undergraduate fellowship programme for research integration.

2005 – CURRENT

## SOFTWARE DEVELOPER – FREELANCER

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Initially self-taught and very competent software and web developer. Created my first website when I was 15 years old, sold my first software at 19 years old, since then worked on different kinds of projects and jobs related to Informatics Engineering. Since 2012 worked in research and several projects related with NLP, pedagogical video games and Computational Linguistics. In 2019 I started a Master in Informatics Engineering just for fun and to have a certificate (currently I am finishing my thesis related with microservices and digital portfolios). I especially love everything related with web development, interactive systems and NLP. In my free time I develop video games.  
Preferred programming languages: C, Python, Rust. Favorite OS: Linux. Currently in a relationship with Microservices Architecture.

Portfolio: <http://www.paulojorgepm.net/portfolio?lang=en>

## ● EDUCATION AND TRAINING

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2019 – 2021 – Portugal

## MASTER'S IN INFORMATICS ENGINEERING – Informatics Department, University of Minho

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**Thesis:** "Development of an e-portfolio social network using emerging technologies" | **Current grade:** 17/20.

Specializations: Language and Knowledge Processing; Software Engineering.

Semestral project 1: *Major Minors* | Website: <http://minors.ilch.uminho.pt> (data mining, sentiment analysis and graph databases related to minorities representations in newspapers).

Semestral project 2: Bosch training project (development of an automotive sensory system).

Masters website: <https://tinyurl.com/yxt9ukgg>

2010 – 2013 – Portugal

## MASTER'S DEGREE IN CULTURAL AND LITERARY MEDIATION - LITERATURE AND CINEMA – Institute of Arts and Humanities at the University of Minho

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**Thesis:** "Interactive Humanities: development of a pedagogical video game". **Final grade:** 17/20.

Programmed (Python/OpenGL) a video game prototype for foreign language learning.

Main fields of study: history of cinema, screenwriting technics, aesthetics theory, creative writing, film production.

2007 – 2010 – Portugal

## BACHELOR'S DEGREE IN EUROPEAN LANGUAGES AND LITERATURE – Institute of Arts and Humanities at the University of Minho

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**Specialization:** Major Portuguese - Minor English. Linguistics I-V. **Final grade:** 14/20.

Optional courses: Translation, Informatics Applied to the Humanities, Lexicography, Digital Humanities, Language and Advertising.

2011 – 2012 – Portugal

## BACHELOR'S DEGREE IN PHILOSOPHY (1ST YEAR ONLY) – Institute of Arts and Humanities at the University of Minho

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Bachelor of Philosophy (attended only one semester as guilty pleasure as an observer, not intended to graduate).

30/03/2017 – 30/03/2017 – Lisbon, Portugal

**WORKSHOP SARC – ISCTE/IUL Lisbon**

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Workshop on the management of scientific journals (at ISCTE/IUL Lisboa, 9:30h-17:30):

Main topics: scientific indexing of Journals (SciELO, DOAJ, etc.), Open Journal System 3, journal management and dissemination of scientific data, bibliographic identifiers (DOI, ISSN, Repositories, etc.), etc.

Certificate: [http://www.paulojorgepm.net/static/pdf/certificate\\_sarc.pdf](http://www.paulojorgepm.net/static/pdf/certificate_sarc.pdf)

23/03/2015 – 23/03/2015 – Braga, Portugal

**TRAINING: INCITES - BENCHMARKING & ANALYTICS – University of Minho**

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Organized by Thomson Reuters and the Documentation Services of the University of Minho. Trainer: Rachel Mangan.

Certificate: [http://www.paulojorgepm.net/static/pdf/certificate\\_incites\\_thomson\\_reuters.pdf](http://www.paulojorgepm.net/static/pdf/certificate_incites_thomson_reuters.pdf)

2017 – 2017 – Portugal

**EVACUATION AND RESCUE TEAM OF THE UNIVERSITY OF MINHO (TRAINING) – University of Minho**

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Training by the Fire Department/firefighters of Braga and the Nortemed security team:

- Organization and emergency protocols in disaster situations.
- Fire protection: fire extinguishers and fire emergency protocols.

2010 – 2012 – Portugal

**MUSIC - GUITAR AND KEYBOARD – Salão Mozart (Music School)**

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Music experience on Guitar (electric and acoustic) and Keyboard. Mainly self-taught, but also some professional training in the music school "Salão Mozart" (Rockschool method - studied until 4th grade).

2002 – 2005 – Braga, Portugal

**HIGH SCHOOL - NATURAL SCIENCES – Escola Secundária de Amares**

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- Specialization/optional fields: Físics, Biology, Psychology, Laboratory Techniques - Chemistry and Biologie.

## ● **DIGITAL SKILLS**

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### **Programming Languages**

Python | C | Rust | C++ | JavaScript | Java | Kotlin | PHP | Lua | Go

### **Databases**

PostgreSQL | MongoDB | SPARQL | Neo4j | Redis | OWL | RDF | XML | MySQL | SQL | JSON | SQLite | SQLAlchemy | GraphDB

### **Web Development**

Django | Vuejs | HTML | CSS | React | Nodejs | Flask | Nginx | Deno | OJS | Bootstrap | JQuery | Actix Web | Web2py | Apache | AJAX | Tornado | Spring Boot

### **Other Tools**

Docker | Kubernetes | Microservice Architecture | Jupyter | Linux | RabbitMQ | Service Mesh | Anaconda | Lin kerd | Istio | Apache Kafka | Arduino | Raspberry | Machine Learning | UML | Git | REST

### **Video Game Development & GUI**

Godot | React Native | Blender | Pyglet | PyGame | Unity | OpenGL | Kivy | Cocos2D | Tkinter | GTK+ | P yQt

## ● PUBLICATIONS

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### **Intégrer les technologies en classe de langue: vers une écriture collaborative et multimodale**

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<https://www.editions.polytechnique.fr/?afficherfiche=226> – 2016

Martins, P.; Araújo, S.; SILVA, M.M. (2016). "Intégrer les technologies en classe de langue: vers une écriture collaborative et multimodale" In: J. André, O. Bertrand et I. Schaffner. Le français écrit au siècle du numérique : enseignement et apprentissage. Paris : Editions de l'Ecole Polytechnique, collection "Linguistique et didactique".

### **Do children with Specific Language Impairment (SLI) present implicit learning (IL) deficits? Evidence from an Artificial Grammar Learning (AGL) paradigm**

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<http://dx.doi.org/10.1186/s12913-018-3444-8> – 2018

Martins, Paulo; Soares, Ana Paula; Nunes, Andreia; Lousada, Marisa (2018). "Do children with Specific Language Impairment (SLI) present implicit learning (IL) deficits? Evidence from an Artificial Grammar Learning (AGL) paradigm". *BMC Health Services Research* 18 S2. DOI: <http://dx.doi.org/10.1186/s12913-018-3444-8>.

### **Interactive Humanities: development of a pedagogical video game**

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2013

Martins, Paulo (2013). "Interactive Humanities: development of a pedagogical video game". Master Thesis, University of Minho, ILCH.

### **Development of an e-portfolio social network using emerging technologies**

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2021

Martins, Paulo (2021). "Development of an e-portfolio social network using emerging technologies". Master Thesis, University of Minho, Informatics Department.

## ● CONFERENCES AND SEMINARS

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12/10/2016 – 14/10/2016 – ILCH

### **Languages and digital storytelling**

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Paulo Martins; Sílvia Araújo (2016). "Línguas e Storytelling Digital". In "TechLING'16 - Languages, Linguistics and Technology", University of Minho, 12-14 October 2016. Url: <http://cehum.ilch.uminho.pt/techling2016>

08/10/2015 – 09/10/2015 – École polytechnique de Paris

### **Intégrer les technologies en classe de langue: vers une écriture collaborative et multimodale**

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Paulo Martins; Sílvia Araújo; Marie-Manuelle Silva (2015). "Intégrer les technologies en classe de langue: vers une écriture collaborative et multimodale", in Colloque de Français Ecrit "Le français écrit au siècle du numérique : enseignement et apprentissage", 8-9 Outubro 2015, Campus de l'X École polytechnique de Paris.

25/05/2013 – 25/05/2013 – ILCH

### **Intervention of Humanities in creative industries: development of a pedagogical video game**

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Paulo Martins (2013). "Intervenção das Humanidades nas Indústrias Criativas: Conceptualização de um videogame lúdico-pedagógico" (2013). In "TicLínguas 2013", University of Minho, ILCH, 25-05-2013.

25/09/2012 – 25/09/2012

### **Digital laboratory of fiction**

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Paulo Martins; Sílvia Araújo; Duarte Barros "Laboratório Digital de Ficção" (2012). In "Sinfo Saramago", University of Minho, ILCH, 25-09-2012.

## ● **EVENTS ORGANIZED / ORGANIZING COMMITTEE**

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12/10/2016 – 14/10/2016

**TechLing'16 Languages, Linguistics and Technology [International Conference]**

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"TechLing'16 Languages, Linguistics and Technology" (Organizing committee). 13-14 October 2016, Braga, BLCS Library, Url: <http://cehum.ilch.uminho.pt/techling2016>

26/11/2015 – 27/11/2015

**XVIII Autumn Colloquium: Other Maps. Language, Migration, Diaspora [Colloquium]**

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"XVIII Autumn Colloquium: Other Maps. Language, Migration, Diaspora" (Organizing committee). 26-27 November 2015, University of Minho, Url: <http://cehum.ilch.uminho.pt/xviico>

## ● **COMMUNICATION AND INTERPERSONAL SKILLS**

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**2016-2019**

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Elected representative of the Junior Researchers in the steering committee of the Center for Humanistic Studies of the University of Minho.

**2017-2019**

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Member of the evacuation and rescue team of the University of Minho.

**2016-2019**

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Training and management of several inters/trainees at ILCH/CEHUM.

**2016**

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Participation in the "Bioblitz Braga - European Night of the Junior Researchers".  
Certificate: [http://www.paulojorgepm.net/static/pdf/certificate\\_noite\\_europeia\\_inv.pdf](http://www.paulojorgepm.net/static/pdf/certificate_noite_europeia_inv.pdf)

## ● **PROJECTS**

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2020

**RideCare (Bosch / Computer Engineering Project)**

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Collaborative project between Bosch and the Engineering School of the University of Minho. Report: <https://tsource98.github.io/PEI/>

**Major Minors**

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Data Mining | NLP | Sentiment Analysis | Web Dev | Graph databases | Vue

Website: <http://minors.ilch.uminho.pt>

Summary: crawled newspapers articles from 1996 to 2019, identifying the ones that mentioned minorities. Built a graph database (OWL, Sparql, GraphDB) with dozens of entities references/ramifications and three main components: articles texts, photos illustrating the articles and comments from users.

**Sociolinguistics Profile of the Speech of Braga**

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R&D FCT funded project. Gave support with software and dedicated server administration.

Project repository: [http://cehum.ilch.uminho.pt/fala\\_bracarenses](http://cehum.ilch.uminho.pt/fala_bracarenses)

Coord.: Pilar Barbosa

## Artificial Grammar Learning (AGL)

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Programmed software for research related with Artificial Grammar Learning (data acquisition related to grammar patterns and language learning skills). Source-code at: [https://bitbucket.org/Paulo-Jorge/test\\_grammar\\_patterns](https://bitbucket.org/Paulo-Jorge/test_grammar_patterns)  
Related publication: "Do children with Specific Language Impairment (SLI) present implicit learning (IL) deficits? Evidence from an Artificial Grammar Learning (AGL) paradigm", DOI: <http://dx.doi.org/10.1186/s12913-018-3444-8>.  
Coord.: Ana Paula Soares

## Text IDE

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Text IDE for linguistics purposes.  
Git: <https://bitbucket.org/Paulo-Jorge/text-ide-kivy>

## Pedagogical video game for language acquisition

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Git: [https://bitbucket.org/Paulo-Jorge/language\\_game\\_cocos2d](https://bitbucket.org/Paulo-Jorge/language_game_cocos2d)

## The Power of Narratives

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R&D Calouste Gulbenkian funded project. Software support.  
Website: <http://cehum.ilch.uminho.pt/narrativas>  
Coord.: Ana Gabriela Macedo

## Microrrelato y Antología

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Database: [http://cehum.ilch.uminho.pt/microrrelatos\\_xaquinnunez](http://cehum.ilch.uminho.pt/microrrelatos_xaquinnunez)  
Coord.: Xaquín Núñez

## ● CREATIVE WORKS

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### Websites

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<http://www.paulojorgepm.net/portfolio#websites>

### Software

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Git: <https://bitbucket.org/Paulo-Jorge>  
Homepage: <http://www.paulojorgepm.net/portfolio?lang=en#programming>

### Digital Poetry

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[http://cehum.ilch.uminho.pt/jquery\\_teste2](http://cehum.ilch.uminho.pt/jquery_teste2)

### Poetry (Book)

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Cosmos side: <http://www.paulojorgepm.net/static/pdf/poems/cosmos-caos.pdf>  
Caos side: <http://www.paulojorgepm.net/static/pdf/poems/caos-cosmos.pdf>

### Research Tools

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<http://cehum.ilch.uminho.pt/resources/en>

### Music (Guitar)

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<http://www.paulojorgepm.net/portfolio#music>

● **LANGUAGE SKILLS**

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**Mother tongue(s):** PORTUGUESE

**Other language(s):**

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ENGLISH</b>	C2	C2	C2	C2	C2
<b>SPANISH</b>	B2	B2	B2	B2	B1
<b>FRENCH</b>	A2	A2	A2	A2	A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● **DRIVING LICENCE**

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**Driving Licence:** B1

**Driving Licence:** B