

Short CV of João Pedro Soares Fernandes (updated on 2016.12.06)



(oil painting by a friend, Hélio F. Luís, <http://hfluis.com>)

Personal information

Full name: João Pedro Soares Fernandes
Skype: jpssoaresfernandes
E-mail: jpsf@fct.unl.pt
Portfolio: <http://www.amaquinadosmiudos.org>
Nationality: Portuguese
Date of birth: 20 July, 1981

Areas of expertise

Science Education, Educational Sciences, Learning Spaces, ICT in Education, Learning platforms, Active Learning Environments, Open Educational Resources, E-learning, B-learning

Work experience

October 2016 – November 2016

Short term consultant for the initiative Republic of Belarus Education Modernization Project, The World Bank Group, Washington DC, USA

September 2016 –

External consultant for the initiatives Ensino a Distância (Distance Education), a K5-12 public online school for traveller children and other children that cannot attend brick and mortar schools, and Ensino Secundário Recorrente a Distância (Distance Adult Secondary Education), a public online secondary school for adults, Directorate General for Education, Ministry of Education, Portugal, available at <http://moodle.ead.dge.mec.pt/>, <https://esrad-camoes.dge.mec.pt> and <https://esrad-mangualde.dge.mec.pt>

June 2016

Designer of the 2nd phase application to the EMA (Stimulus to the improvement of learning) call for proposals by Calouste Gulbenkian Foundation. Escola Secundária de Fonseca Benevides, Portugal

April – May 2016

Teacher trainer in the course “Organization and management of schools’ science laboratories”. Teacher Training Center Ordem de Santiago, Setúbal, Portugal

April – May 2016

Teacher trainer on ICT for active learning in a proof of concept for Microsoft Education Portugal. Colégio Pedro Arrupe, Lisbon, Portugal

February - May 2016

Teacher trainer in the course "Organization and management of schools' science laboratories". Teacher Training Center Calvet de Magalhães, Lisbon, Portugal

September 2015 -

Co-founder of OneNote in Research, a digital research notebook concept, training program and design service for researchers using Microsoft OneNote, available at <http://onenoteinresearch.com>

July 2015 -

Representative of the General Assembly in the Executive Board for the Research Cooperative Cultivare - Cooperation, Action, Ethics CRL

March 2015 – July 2016

Designer of the infra-structure model, support and professional development for the school year 2015/16 for the Ensino a Distância (Distance Education) K5-12 online public school. Directorate General for Education, Ministry of Education, Portugal, available at <http://moodle.ead.dge.mec.pt/>

May 2015

Copyediting of P. Fontes da Costa (ed.), *Ciência, Ética e Cidadania (Science, Ethics and Citizenship)*, Self-published, 2015

April 2015

Invited Presider for the paper session "Epistemology and Science Learning". NARST Conference 2015. Chicago, USA: Hyatt Regency.

December 2014 – March 2015

Teacher trainer in the Ensino a Distância (Distance Education) K5-12 public online school for subject-specific technologies for distance education (Languages, Arts, Mathematics, Science, Special needs), Directorate General for Education, Ministry of Education, Portugal, available at <http://moodle.ead.dge.mec.pt/>

October 2014 – January 2015

Teaching assistant in the subject of Technical and Scientific Communication, in the masters and doctoral programs offered by I3N on Nanotechnology and Materials Sciences – Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa, Portugal

September 2014

NARST Conference 2015 reviewer, Strand 2 - Science Learning: Contexts, Characteristics and Interactions, NARST, USA

September 2014

Teacher trainer (30 teachers of the Distance Education K5-12 public online school in the course "Using learning platforms for Distance Education", DGE, Ministry of Education, Portugal, available at <http://moodle.ead.dge.mec.pt/>

August – September 2014

Copyediting of P. Fontes da Costa (ed.), *Medicine, Trade and Empire: Garcia de Orta's Colloquies on the Simples and Drugs of India in Context*, Ashgate, 2015

July - October 2013

Video and audio production of TEDx FCTUNL 2013, Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa, available at <http://www.tedxfctunl.com>

June 2013 –

Member of research team in the project Attitudes, expectations and practices in the Portuguese secondary schools' science laboratories, PTDC/MHC-CED/5116/2012, funded by the Foundation for Science and Technology. Universidade Nova de Lisboa, Portugal, available at <http://laboratorioscolares.net>

January – February 2013

Designer of the Science, Technology and Society course' website, video editing and conversion, Moodle quizzes configuration and creation of a question bank for approximately 1100 students – Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa, Portugal

May 2012 – January 2013

Model design, coordination and technical conception of the self-published and open access Mathematics textbook for year 12, NiuAleph 12 <http://niualeph.eu>

November 2011 -

Production of multimedia presentation “As ligações perigosas” by Professor António Manuel Nunes dos Santos, presented in Fundação Calouste de Gulbenkian, Lisbon, Portugal

October 2011 – June 2014

Journal Editor (Thematic Issue on STEM Education) of Revista Lusófona de Educação - Universidade Lusófona de Humanidades e Tecnologias, Lisbon, Portugal, available at <http://revistas.ulusofona.pt/index.php/rleducacao>

April - July 2010

Trainer in teacher training course (Using the new school science laboratories) with the collaboration of DGIDC and Parque Escolar involving 119 teachers from 66 schools across the country - Fundação da Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa, Portugal

July 2009 – June 2011

Member of research team in project IN_LEARNING - Designing active learning environments, PTDC/AUR-AQI/105410/2008, funded by the National Science and Technology Foundation – Universidade Técnica de Lisboa, Lisbon, Portugal, available at <http://in-learning.ist.utl.pt>

January 2009 – June 2009

Member of consultant team in project Portal das Escolas (Schools' Portal) – Communication, Collaboration and LMS integration in the national web portal for teachers, students and schools <http://www.portaldasescolas.pt> – Faculdade de Ciências, Universidade de Lisboa

April 2009 – December 2009

Member of consultant team in project Plano Tecnológico da Educação – Eixo Conteúdos (Educational Technology Plan – Resources) – National Educational Resources Repository - Universidade de Évora, Portugal

July 2008 – October 2013

Author for Packt Publishing, London – Moodle 1.9 Multimedia (2009) and Moodle 2.5 Multimedia (2013)

January 2008 – July 2010

Member of the team lead by Prof. Vitor Duarte Teodoro, Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa, that designed the new model for science learning spaces in the Portuguese secondary school's modernisation plan. Parque Escolar E.P.E., available at <http://laboratorioscolares.net> and <http://www.parque-escolar.pt/>

January 2008 -

Researcher at UIED (Unit of Development Education and Development) – Universidade Nova de Lisboa, Portugal, available at <http://uied.fct.unl.pt/>

September 2007 – July 2010

Research assistant in Tempus project DICSIM (Develop ICT Capable Schools in Moldova). European Commission / Universidade Nova de Lisboa

September 2005 – December 2007

Management assistant in Moodle@FCTUNL Team – University-wide DSpace Repository, Faculty Learning Management System and Secondary Schools' Online Community projects – Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa <http://run.unl.pt/> | <http://moodle.fct.unl.pt/> | <http://cne.fct.unl.pt/>

February – July 2006 & 2007

Teaching assistant in Educational Technology in the 2nd term, year 4 of the degree of Natural Sciences Teaching (Biology and Geology) and Physics and Chemistry Teaching – Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa, Portugal

September 2006 – January 2007

Tutor in Masters Course in Educational Sciences – Specialisation: Educational Technology in the subject Internet and Education – Universidade Católica Portuguesa, Portugal

June 2006

Researcher assistant in project SACAUSEF (Educational resources and software evaluation and certification) – Universidade de Évora, Portugal

September 2005 – February 2006

Research assistant in the Socrates Comenius project ITforUS (Information Technology for Understanding Science) – European Commission / Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa

September 2004 – August 2005

Contracted teacher of Subject Group 26 (Biology and Geology) – Secondary School Dr. José Afonso, Arrentela, Portugal

Education and Training

April 2016

3D Bioprinting online course. University of Wollongong, Australia

May 2014

Social Innovation: European visions and trends, local action and programs – Young Foundation, 8 May 2014, Fundação Eugénio de Almeida, Évora, Portugal

March 2014

Workshop Scientix 2 - Aprender Física e Matemática por Modelação Computacional – Direcção-Geral da Educação. 29 March 2014, Escola Secundária Emídio Navarro, Almada, Portugal

February 2014

Modelação 3D com Blender, FABLAB EDP, 11-17 February 2014, Faculdade de Ciências e Tecnologia da Universidade Nova de Lisboa, Monte da Caparica Portugal

October 2013 –

Doctorate in Educational Sciences, FCSH, FCTUNL and ISPA joint programme, Portugal

September 2013

I International Meeting “Economia Solidária: Finanças e incubação social solidária, 23-25 September 2013, Universidade Lusófona de Humanidades e Tecnologia, Lisbon, Portugal

December 2012

Symposium "The Alan Turing Centenary", Fundação Calouste Gulbenkian, Lisbon, Portugal

January 2012

Workshop "Introduction to Permaculture", Centro de Convergência Aldeia das Amoreiras, Portugal

January 2010

Forum for the Future project seminar – Learning environment simulation, Educa 2010, Helsinki, Finland

May 2009

Challenges 2009 - International Conference on Information and Communication Technologies in Education, Universidade do Minho, Braga, Portugal

November 2009

European Science Education Research Association (ESERA) Conference 2009, Istanbul, Turkey

January 2009

Association for Science Education (ASE) Annual Conference 2009, Reading, United Kingdom

May 2008 – March 2012

Full-time (2008-2010) and Part-time (2010-2012) Student in MPhil/PhD Programme in Science Education - Redesigning Schools' Science Laboratories as Powerful Learning Environments. Attendance of a Foundation Programme (two terms), with the following subjects - Research process and design, Ethnography, Action research, Working with non-academic partners, Applying for research funding, Cause and effect in education, Theory and practice in social science research, Computer applications, Quantitative methods, Quantitative data analysis, Qualitative data analysis, Classroom observation, Analysing discourse data, Questionnaire design, Combining qualitative and quantitative research methods, Interview training, Writing. Attendance of biweekly seminars organised by the Science and Technology Education Group between May 2008 and December 2009. King's College, London, University of London, UK

July 2008

Digital Transformation of Organizations, University of Texas, Austin and Universidade do Porto, Porto

2006-2008

UOC Chairs in E-Learning International Seminars – OER (Open educational Resources); Web 2.0, Barcelona, Spain

September 2000 - June 2005

Major (Licenciado) in Natural Sciences Teaching (Biology and Geology) (LECN) with 16 out of 20 – Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa, Portugal

Other

Certified Teacher Trainer in Educational Technology by the CCPFC in Portugal (2007)

Qualified Teacher Status in England and Wales (2008)

International English Language Testing System's Academic Test (January 26, 2008) - Overall band score: 8 (Listening – 8.5; Reading – 8.5; Writing – 7.5; Speaking – 7.5)

Native fluency in Portuguese, conversational ability in Spanish, good reading ability in French

Knowledge of several countries, cultures and schools in 4 continents

1st Level General Jazz Course (Guitar), Escola de Jazz e Música Moderna de Almada-Seixal (2002-2004)

Driver's License, January 2001, Category A1, B, B1 (January 2001)

2nd Kyu Aikido Aikikai with Sensei Francisco Carvalho, Almada-Seixal (2011 -)

Promoter of the Coopjovem programme project Rhizoma CRL, Cooperativa António Sérgio para a Economia Social (CASES) (2013)

Independent use of software for Productivity (Adobe Indesign, Photoshop, Illustrator, Premiere, Encore, Soundbooth, Acrobat Professional & 3D, Dreamweaver, Microsoft Office OneNote, Word, Excel, Powerpoint, Onenote, Google Sketchup), Social Sciences Research (SPSS, XLStat, Mathtype, NVivo, EndNote, Zotero, Papers), Instructional Design (Camtasia Studio, Voilá, Epic Pen, Screenflow, Reflector, PATHWAY ASK-LDT), Server Management (Cpanel, Clonezilla Live and Server Edition, Comodo Time Machine, Google Analytics), Content Management Systems (Wordpress), Learning Management Systems (Moodle), Digital Repositories (DuraSpace), Project Management (Redmine, Basecamp), Collaboration tools (Google Hangouts, Dropbox, Google Drive, OneDrive, Murally, Skype, Office 365), Open Source Software – GIMP, Audacity, Inkscape, Musescore, TightVNC, VLC, Brackets, Vue, Ubuntu)

Publications and Workshops

Fernandes, J. & Barbeiro, L. (forthcoming, 2017, *peer-reviewed invited case study*). Coordinating diverse research practices using Digital Research Notebooks - a case study in Science Education. SAGE Research Methods.

Fernandes, J. & Barbeiro, L. (2015). Using Onenote as a meta-tool across the qualitative research process. In *EERA ECER 2015 Conference*, 7 – 11 September 2015. Budapest, Hungary: Corvinus University of Budapest.

Fernandes, J. & Barbeiro, L. (2015). Onenote: a digital tool for qualitative research. In *ESERA 2015 Conference*, 31 August – 4 September 2015. Helsinki, Finland: University of Helsinki.

Fernandes, J. (2015). Criação de vídeos para Flipped Classroom com tablets e quadros interativos. Invited workshop at *TIC@Portugal'2015*, 3 July 2015. Monte da Caparica, Portugal: Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa.

Fernandes, J. (2014). Wolfram|Alpha para a Educação STEM. *Educação e Matemática 128*, Associação de Professores de Matemática, Portugal

Fernandes, J. (2014). Ambientes de Aprendizagem Activa para a Educação STEM - Algumas Tendências no Uso de Tecnologias. *Educação e Matemática 127*, Associação de Professores de Matemática, Portugal

Fernandes, J. (2013). *Moodle 2.5 Multimedia*. Birmingham: Packt Publishing Ltd

Fernandes, J. (2009). *Plataformas, comunicação, colaboração e o Portal das Escolas (Platforms, communication, collaboration and the Schools' Portal)*. Lisbon: GEPE

Ramos, J. L., Teodoro, V. D., Chagas, M. I., Ferreira, F., Fernandes, J. (2009). *Estudo de implementação do Portal da Escola – Eixo Conteúdos (Implementation study of the Schools' Portal – Contents)*. Lisbon: GEPE (to be published in 2009)

Fernandes, J. (2009). *Moodle 1.9 Multimedia*. Birmingham: Packt Publishing Ltd.

Fernandes, J., Teodoro, V. & Boavida, C. (2008). *Laboratórios escolares: espaços flexíveis para aprendizagem activa – aspectos essenciais (Schools' science laboratories: flexible spaces for active learning – key features)*. Almada: FCTUNL. Available at <http://laboratoriosescolares.net/>

Fernandes, J. (2008). Science Learning Studios. In *Anais Educação e Desenvolvimento 8*. Almada: UIED.

Heitor, T., Teodoro, V. Fernandes, J. & Boavida, C. (2008). Novos laboratórios escolares (New schools' science laboratories). in *Gazeta da Física* Vol. 31, Fasc. 4. Lisbon: Sociedade Portuguesa de Física.

Heitor, T., Teodoro, V. Fernandes, J. & Boavida, C. (2007). Modernização dos espaços para o ensino das ciências no ensino secundário (Modernisation of spaces for science teaching in secondary schools). in *Gazeta de Física*, Vol. 30, Fasc. 2/3. Lisbon: SPF.

Communications and Posters

Fernandes, J. (2016). Ensino a distância 2014-2016 - Formação de professores e aspectos tecnológicos (Teacher training and technological aspects), Colóquio Ensino a Distância, Escola Secundária Fonseca Benevides, 17 March 2016

Fernandes, J., Barbeiro, L. & Rodrigues, A. R. (2016, *accepted poster*). Digital Research Notebooks – A tool for communicating the products and processes of research. In *14th International PCST Conference*, 26 – 28 April 2016. Istanbul, Turkey.

Fernandes, J. & Barbeiro, L. (2015). Design de novelas gráficas pedagógicas como ferramentas de investigação, prática educativa e desenvolvimento profissional? In *XVI ENEC Conference*, 12 September 2015. Lisbon, Portugal: Institute of Education, University of Lisbon.

Fernandes, J. & Barbeiro, L. (2015). Designing Pedagogical Graphic Novels as Tools for Educational Research, Practice and Professional Development? In *EERA ECER 2015 Conference*, 7 – 11 September 2015. Budapest, Hungary: Corvinus University of Budapest.

Fernandes, J. (2015). Estúdios de aprendizagem – espaços flexíveis para aprendizagem activa. 3^{as} com TEA (Tablets no Ensino Aprendizagem, Fundação Calouste Gulbenkian), Lisbon: Escola Secundária Eça de Queirós, 10 February 2015.

Fernandes, J. & Tedoro, V. D. (2014). Attitudes, expectations and practices in the Portuguese secondary schools science learning studios. *Flipped Learning for large groups: SCALE-UP Conference*. UK: Nottingham Trent University, 12 September 2014.

Fernandes, J. (2014,). Analysing activities in the Portuguese secondary schools science learning studios. *Emerging Researchers' Conference – ECER 2014*. Porto: Universidade do Porto, 1-5 September 2014

Fernandes, J. & Bigio, A. (2014). Modelos Alternativos de Edição Escolar (Alternative school textbooks' production models). *6.º Colóquio Internacional Manuais Escolares e Recursos Educativos*. Lisbon: CEIED, Universidade Lusófona de Humanidades e Tecnologias de Lisboa, 20 June 2014.

Teodoro, V. D. & Fernandes, J. (2014). Tendências recentes na concepção e utilização de laboratórios escolares. *XV ENEC 2014 (Encontro Nacional de Educação em Ciências)*, Faro: Universidade do Algarve, 2-5 March 2014

Fernandes, J. (2014). Systemic-Structural Activity Theory – An overview of basic concepts. *Seminário Interdisciplinar UIED*. Almada: Universidade Nova de Lisboa, 11 January 2014

Ramos, J. L., Teodoro, V. D., Fernandes, J., Ferreira, F., Chagas, M. I. (2010). *Recursos educativos digitais: contributos para o diagnóstico da situação em Portugal*. Lisboa: TIC Educa 2010, Instituto de Educação, Universidade de Lisboa, November 19-20 2010.

(2009) Project activities carried out by New University of Lisbon. Institute of Continuing Education, Chisinau, Moldova, to the European commission TEMPUS evaluation team

(2008) Moodle em Portugal: números, oportunidades, ideias. Caldas da Rainha: Caldas Moodle 2008, EDUCOM. Universidade Católica Portuguesa, Caldas da Rainha, September 12-13 2008

(2008) with Maneira, A. Moodle na FCTUNL. Caldas Moodle 2008, EDUCOM. Universidade Católica Portuguesa, Caldas da Rainha, September 12-13 2008

(2008) Moodle in distance education: the Portuguese experience. Institute of Continuing Education, Chisinau, Moldova, May 19, 2008, in ICT coordinators national meeting

(2007) Contributions to a vision and strategy for the DICSIM (Developing ICT capable schools in Moldova) project. KTH, Stockholm, Sweden, 23 October 2007

(2007) Seminário sobre práticas inovadoras no ensino universitário das ciências e da matemática nos EUA – relatos de uma road trip na costa Este dos EUA (Seminar on innovative practices in science and maths higher

education in the US – snapshots of a road trip to the USA East Coast). UIED, Faculdade de Ciências e Tecnologia da Universidade Nova de Lisboa, 31 October and 14 November 2007

(2006) Moodle@FCTUNL – comunidades de aprendizagem e de trabalho colaborativo na FCTUNL, O Ensino Superior – Desafios e Estratégias – Bolonha e o E-learning. Escola Superior de Tecnologia de Setúbal/IPS, 26 September 2006

Prizes and Bursaries

(2014) Bursary – awarded by the Link Convenor (Portugal) of the Emerging Researchers Group, EERA

(2012) National Science and Technology Foundation ICDT Project – PTDC-MHC-CED-5116-2012 - Attitudes, expectations and practices in the Portuguese secondary schools' science laboratories

(2008) Scholarship – Rosalind Driver Studentship awarded by the Science and Technology Education Group, Department of Education and Professional Studies, King's College London, University of London

(2006) School prize - Best student of Natural Sciences Teaching degree (Biology and Geology) in 2004/2005, awarded by Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa

Memberships

Associação Portuguesa de Paralisia Cerebral

Plan International

Cultivare CRL