

SHORT CURRICULA VITAE: FREDERICO CASTELO ALVES FERREIRA

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R. Sousa Lopes, Lote PQ, Apt 197, 1600-207 Lisboa, Portugal.

Birth date: 21/12/75 • **Nationality:** Portuguese



EDUCATION/QUALIFICATIONS

- 2006-2008 **Master in Business and Administration.** Faculdade de Economia, Universidade Nova de Lisboa/ Faculdade de Ciências Económicas e Empresariais, Universidade Católica Portuguesa.
- 2005-2008 **1st Module of the Certificate of Advanced Study in Learning and Teaching (CASLAT). Centre for Educational Development. Imperial College London.** Training on High Education Teaching.
- 1999-2004 **Ph.D. in Chemical Engineering. Department of Chemical Engineering and Chemical Technology, Imperial College London.** Supervisor: Prof. Andrew Livingston, Examiners: Prof. Robert Field and Prof Kang Li. Thesis title: “Membrane Aromatic Recovery System (MARS): Theoretical Analysis and Industrial Applications”.
- 2002-2003 **PG Certificate of Demonstration, Centre for Educational Development. Imperial College London.** Postgraduate Program in supervision and student learning
- 1993-1999 **5-years Undergraduate Degree. Applied Chemistry** (major in chemistry, minor in biotechnology). **Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa, Portugal.** Award: 16/20.

WORK EXPERIENCE

- Current:** **2015 Assistant Professor.** Department of Bioengineering, Instituto Superior Técnico, Institute for Bioengineering and Biosciences (IST/IBB), University of Lisbon, Portugal.
- Industrial / Knowledge Transfer** **2013 Project Manager,** Research and Technology Management Fellowship (5 months), SUDOE Regenerative Medicine Network SUDOE Interreg IV B. SOE3/P1/E750.
- 2008-2013 Business Development Consultant.** Supporting Executive for CoHiTec 2008-13, Business catalyst for ISCT-MIT I3 2010 and Building Global Innovators 2013.
- 2007 Technical consultancy. Membrane Extraction Technology (MET).** Development of organic solvent nanofiltration processes. Primary contact: Dr Andrew Boam (6 months).
- 2002 Development Process Engineering. Membrane Extraction Technology (now Evonik-MET). United Kingdom.** Industrial application of the MARS at pilot scale at a resin production site (6 months).
- Academic** **2013-2014 Senior Research Scientist, Investigador Principal,** Development grant, Investigador FCT, Research Contract: IF/00442/2012 (Starting date: 1 Sept 2013), Main Scientific area: Engineering and Technology, **Scientific Area: Chemical engineering.** Instituto Superior Técnico, Institute for Biotechnology and Bioengineering (IST/IBB)
- 2009-2013 Invited Assistant Professor.** Department of Bioengineering (2011-2013)/Department of Chemical and Biological Engineering (2009-2010), Instituto Superior Técnico, Institute for Biotechnology and Bioengineering (IST/IBB), Technical University of Lisbon, Portugal, under the MIT-Portugal Program.
- 2008-2009 Research fellow.** Instituto de Ciência e Engenharia de Materiais e Superfícies/Department of Chemical and Biological Engineering (ICEMS/DEQB), Instituto Superior Técnico, Technical University of Lisbon, Portugal.
- 2006-2008 Post-Doc Researcher. Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa/Honorary Research Associate: Imperial College London.** Project on membrane technology: chiral separations, nanofiltration and water treatment.
- 2004-2006 Research Associate. Department of Chemical Engineering and Chemical Technology, Imperial College London (IC). United Kingdom.** Project in collaboration with GlaxoSmithKline (GSK). Co-supervision of five Ph.D. students in four other different projects.

AWARDS AND BONUS

- 2008: 1st prize for knowledge valorization, business plan for 1st phase of CoHiTec programme;
- 2006: Technology Venture Fellowship, The Entrepreneurship Centre, Tanaka Business School. “New Venture Creation 1: The Entrepreneurial Journey” and “Venture Capital Finance”. • Bonus Award Imperial College London (2005) • Honorary Research Associate fellow of Imperial College London (2006-2009) • Individual PhD (2000-2004) and Post-Doc (2006-2008) Scholarships.

RESEARCH METRICS

- International peer reviewed articles: 41 (31 Q1, Corresponding Author 21)
- Book chapters: 2

- Other publications:
 - Articles in National Periodicals 1
 - Proceedings (Peer-reviewed full length manuscripts): 2
 - Contributions to Encyclopaedia 2
 - Patents submitted: 2 (1 PTC. 1 WO)

- Co-author of International oral presentations: 30 (International: 28, national: 4)
- Co-author of posters presentations 21 (International 20, national 3)

- Participation in Research Grants and Contracts 13
 - Participation in research grants and contracts: 10 (EPSRC, FP7, FCTx4, Ind-GSK, ERDF, H2020, ERA-NET);
 - Principal Investigator of research contract: 3 (FCTx2, Industrial);

- FCT Individual Scholarships / Research Positions:
 - FCT PhD Programmes: 2 (1 PhD, 1 Post-Doc)
 - Own Researcher Positions/ Individual Fellowships 4 (Ciencia, MPP Professorship, R&T Manager, IF)

- Student supervision:
 - Ongoing: Supervision: 8 PhD, 4 MSc;
 - Ongoing Co-supervision: 5 PhD, 2 MSc;
 - Concluded: Supervision: 2 PhD, 12 MSc and 1 UGs;
 - Concluded Co-supervision: 1 PhD, 6 MSc, Assisting sup: 5 PhD and 3 UGs.

- Key Research metrics:
 - H-Index: 13
 - Accumulated IF: 107.75
 - Total citations (with self-citation): 529 (ISI-WOS); 637 (Scopus)

- Collaborations:
 - Industrial Partners, GlaxoSmithkline, Pfizer, Hovione FarmaCiencia SA, MET-Evonik, Clariant

 - International Universities/Academic, Massachusetts Institute of Technology
Imperial College London
Rensselaer Polytechnic Institute
The Manchester University
The University of Aberdeen
Universität Dortmund,
University of Cambridge,
Politecnico di Milano
SINTEF - Materials and Chemistry

 - National Institutions FARM-ID
REQUIMTE
CQFM-IST
ITQB-UNL
ESB-UCP.

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