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# Francisco Veloso

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## **Dean**

### **Professor of Innovation and Entrepreneurship**

Católica Lisbon School of Business and Economics ▼ [fveloso@ucp.pt](mailto:fveloso@ucp.pt) ▼ +351 917 048 447 ▼ [researcherid.com/rid/A-2279-2008](http://researcherid.com/rid/A-2279-2008)

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#### **Academic Positions**

CATÓLICA LISBON – School of Business and Economics, PORTUGAL

*Dean (Current); Dean of Faculty (2010-2012); NOS Chaired Professor of Innovation and Entrepreneurship (2010-2016)*

*Full Professor (Since 2011; joint with CMU); Associate Professor (2009-2010; joint with CMU);*

CARNEGIE MELLON UNIVERSITY, Department of Engineering and Public Policy (EPP), Pittsburgh, PA, USA

*Full Professor (2011-2013; joint with Católica); Associate Professor (2008-11); Assistant Professor, (2004-08). Visiting Assistant*

*Professor (2002-03). Scientific Coordinator, Carnegie Mellon I Portugal Program (2007-2012)*

INSTITUTO SUPERIOR TÉCNICO (IST), Lisboa, PORTUGAL

*Post Doctoral Research Associate. Center for Innovation, Technology and Policy Research (2001; collaboration with MIT).*

MASSACHUSETTS INSTITUTE OF TECHNOLOGY (MIT), Cambridge, MA, USA

*Post Doctoral Research Associate. Materials Systems Laboratory – CTPID (2001; collaboration with IST).*

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#### **Education**

MASSACHUSETTS INSTITUTE OF TECHNOLOGY (MIT), Cambridge, MA, USA

*PhD. in Technology, Management and Policy (2001)*

INSTITUTO SUPERIOR DE ECONOMIA E GESTÃO, Technical University of Lisbon, Lisboa, PORTUGAL

*MSc. in Economics and Management of Science and Technology (1996)*

INSTITUTO SUPERIOR TÉCNICO, Technical University of Lisbon, Lisboa, PORTUGAL

*Five-Year Diploma in Physics Engineering (1992)*

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#### **Honors, Awards and Distinctions**

- Member of the Research, Innovation and Science Experts High-Level Advisory Body to European Commissioner Carlos Moedas
- Member of the International Advisory Board of the EBAPE – Brazilian School of public and Business Administration (since 2016)
- Member of the International Board of the Engineering Entrepreneurship 2030 initiative at Universidad Católica Chile (since 2015)
- Member of the International Advisory Council of Fundação Dom Cabral (FDC), Brazil (since 2014)
- Member of the National Council for Entrepreneurship and Innovation (CNEI), a group of leading academics, managers and entrepreneurs appointed by the Prime Minister of Portugal to provide high level Cabinet advice (since 2012)
- Member of the Industry Council, a group of leading academics and industry representatives appointed by the Minister of Economics of Portugal to provide advice on the national strategy for industrial development enacted by the Ministry (2012-2015).
- Member of the National Council for Science & Technology, a group of leading academics appointed by the Prime Minister of Portugal to provide high level Cabinet advice (2012-2015)
- Award for best conference paper (runner up) at annual meeting of Strategic Management Society (2011)
- NOS Chaired Professor of Innovation & Entrepreneurship at Católica Lisbon School of Business and Economics (2010-2016)
- Alfred P. Sloan Industry Studies Fellowship Award for research and outreach contributions in the auto sector (2008-2011)
- Stan Hardy Award for the most outstanding research paper published in 2008 in the field of Operations Management (2009)
- Main advisor for best dissertation award winner theses of C.Gonzalez (2005); J.Lee (2006); B.Fifarek (2009); C.Wolter (2011)
- Wickam Skinner Award for best unpublished paper (runner up) at Production and Operations Management Society (2008)
- MIT/TPP award for excellence and leadership in technology and policy (1998)
- Winner of the MIT 2.810 CAD/CAM Car Competition (1996)
- JNICT-ISEG award for the best student in the technology management MSc. (1996)
- Promindústria (venture capital firm) award for the best entrepreneurial project in IST (1991)
- Portuguese Government Fellowships for MSc. and PhD. Studies

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#### **Academic and Professional Service**

- Member of accreditation peer review teams for AACSB and EQUIS (since 2013)
- External member of the Jury for a Full Professor Position in Management at Instituto Superior Técnico, Lisbon (2014)
- Member of the Nominating Committee and Founding Member of the Industry Studies Association (2011-13).
- Associate Editor for Innovations: Technology, Governance, and Globalization. MIT Press (2007-13)
- Program Committee of Euroma – The annual meeting of the European Operations Management Association (2010; 2011)
- Past Chair, Division Chair and Program Chair for the Technology Management Section of INFORMS (2006-10)
- Member of the Early Career Development Committee for the Industry Studies Association and the Sloan Foundation (2009-10).
- Ad-hoc Reviewer for a variety of grant providers (foundation and government) as well as leading academic journals
- Organizer and host of weekly research seminar at Carnegie Mellon University (2005/2007)
- Program Committee of the International Conference on Technology Policy and Innovation (1996, 1997)
- Portuguese American Post-Graduate Society, Founder and Treasurer (1998-2000)
- Technology and Policy Student Society at MIT, Founder and President (1998)
- Junitec - Entrepreneurship Society at Instituto Superior Técnico, President (1992-1993)

## Grants

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- Future of Work Center, Heinz College, Carnegie Mellon: "Information Technology and the Globalization of R&D" (2011). Co-PI
- Carnegie Mellon-Portugal: "The Role of 'User Innovators' in the Development of Telecom Products and Services" (2010). PI
- National Science Foundation: "Clusters, Heritage and the Microfoundations of Spillovers-Semiconductor lessons" (2010). Co-PI
- Carnegie Mellon-Portugal: "Human Capital, Knowledge Based Firms, and the Entrepreneurial Life-Cycle" (2009). Co-PI
- National Science Foundation: "The Rise of Co-invention: A New Phase in the Globalization of Innovation?" (2008). Co-PI.
- Richard King Mellon Foundation: "The Reach and Impact of Publicly Funded TBED Programs" (2008) PI
- Alcoa Inc and Pennsylvania Infrastructure Technology Alliance: "Knowledge Reuse for Innovation" (2008) PI.
- National Science Foundation (NSF): "Evaluation of Research Groups: An Endogenous Approach" (2007). PI.
- NSF: "Sustainability in Disruptive Technology Contexts: Dynamic Capabilities and the Locus of Innovation." (2007). PI.
- International Motor Vehicle Program Grant for research on automotive supplier global location issues, analysis of automotive supplier capabilities and firm response to technology forcing regulation (2004; 2005, 2006, 2007). PI
- Carnegie Mellon-Portugal Program. Thrust leader for Area of Technological Change and Entrepreneurship – establishment of a joint PhD program between Carnegie Mellon, Universidade Tecnica de Lisboa and Universidade Catolica in Portugal. (2006)
- CONACYT Mexico: "The Impact and Productivity of Mexican Science and Technology in a Global Context." (2006). PI
- NSF: "Technology-Forcing Regulation: A Tale of Two Automotive Technologies" (2005). Co-PI.
- Berkman Faculty Development Fund at CMU: "An Endogenous Approach to the Evaluation of Research Groups." (2004) PI
- NSF: "Outsourcing Technological Innovation to Foreign Technology Centers" (2004) Co-PI.
- Pennsylvania Infrastructure Technology Alliance: "Outsourcing Technology Innovation to Foreign Centers" (2004, 2006) Co-PI.
- Inmetco corporation: "Outsourcing Technological Innovation to Foreign Technology Centers." (2004) Co-PI.
- Portuguese Science Foundation (FCT): "Globalization, Diversification and Technological Capability." Co-PI
- Brazilian Government grant for research on the development of the local software industry (2002) Co-PI.
- Portuguese Government grants for research on the local Autoparts Industry (1999, 2000, 2003) PI.

## Publications

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### *Major peer reviewed journal publications*

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1. Kemeny, C. Castellaneta, F., Conti, R. and Veloso, FM. 2016. "Trade Secret Protection and the Geography of Venture Capital Investments: Evidence from Inevitable Disclosure Doctrine." *Journal of Business Venturing* 31(5):524-541 [\[DOI Link\]](#) **[FT50]**
2. Gonzalez-Brambila, C., Reyes-Gonzalez, L., Veloso, FM and Perez-Angón, A., 2016 "The Scientific Impact of Developing Nations." *PLoS ONE* 11(3): e0151328; [\[DOI Link\]](#)
3. Cheyre, C., Klepper, S., and Veloso, F.M., 2015. "Spinoffs and the Mobility of US Merchant Semiconductor Inventors". *Management Science* 61(3):487-506 [\[DOI Link\]](#) **[FT50]**
4. Cheyre, C., Kowalski, J. and Veloso, FM., 2015. "Spinoffs and the Ascension of Silicon Valley." *Industrial and Corporate Change* 24(4): 837-858 [\[DOI Link\]](#)
5. van der Boor, P; Oliveira, Pedro and Veloso, F. 2014. "Users as innovators in developing countries: The global sources of innovation and diffusion in mobile banking" *Research Policy* 43(9): 1594–1607 [\[DOI Link\]](#) **[FT50]**
6. Gonzalez-Brambila, C., Krackhardt, D. and Veloso, F.M., 2013. "The impact of network embeddedness on research output." *Research Policy*. 42(9): 1555–1567 [\[DOI Link\]](#) **[FT50]**
7. Lee, J. Hounshell, D and Veloso, F. 2011. "Linking induced technological change, and environmental regulation: evidence from patenting in the U.S. auto industry" *Research Policy* 40(9): 1240-1252 [\[DOI Link\]](#) **[FT50]**
8. Vaccaro A., Brusoni S., Veloso F., 2011 "Virtual Design, Problem Framing and Innovation: An Empirical Study in the Automotive Industry" *Journal of Management Studies*. 48(1): 99-122 [\[DOI Link\]](#) **[FT50]**
9. Dias, B., Reyes-Gonzalez, L., Veloso, F. and Casman, E., 2010. "The Effects of The USA PATRIOT Act and the 2002 Bioterrorism Preparedness Act on Select Agent Research in the U.S." *Proceedings of the National Academies of the USA*. 107(21): 9556-9561 [\[DOI Link\]](#)
10. Horta, H., Veloso, F. and Grediaga, R., 2010. "Navel gazing: Academic inbreeding and scientific productivity." *Management Science*. 56(3): 414-429 [\[DOI Link\]](#) **[FT50]**
11. Fifarek, B. and Veloso, F.M., 2010. "Offshoring and the Geography of Innovation." *Journal of Economic Geography*. 10(4): 559-578 [\[DOI Link\]](#)
12. Vaccaro A., Veloso F., Brusoni S., 2009. "The Impact of Virtual Technologies on Knowledge Based Processes: An Empirical Study." *Research Policy* 38(8): 1278-1287. [\[DOI Link\]](#) **[FT50]**
13. Benner, M. and Veloso, F.M., 2008. "ISO 9000 Practices and Financial Performance: A Technology Coherence Perspective," *Journal of Operations Management*. 26(5): 611-629 [winner of the DSI Stan Hardy Award as the outstanding paper published in the field of Operations Management in 2008] [\[DOI Link\]](#) **[FT50]**
14. Wolter, C. and Veloso, F.M., 2008. "The Effects of Innovation on Vertical Structure: Perspectives on Transaction Costs and Capabilities" *Academy of Management Review* 33(3): 586-605 (lead paper) [\[DOI Link\]](#) **[FT50]**
15. Fifarek, B., Veloso, F.M. and Davidson, C. 2008. Offshoring Technology Innovation: A Case Study of the Rare-earth Technology. *Journal of Operations Management*. 26(2): 222-238 [\[DOI Link\]](#) **[FT50]**
16. Gonzalez, C. and Veloso, F.M., 2007. The Determinants of Research Productivity: A Study of Mexican Researchers. *Research Policy*. 36: 1035-1051 [\[DOI Link\]](#) **[FT50]**

17. Lee, J and Veloso, F.M., 2008 Inter-Firm Innovation under Uncertainty: Empirical Evidence for Strategic Knowledge-Partitioning. *Journal of Product Innovation Management* 25(5): 418-435 [winner the best student paper award in the Portland International Conference on Management of Technology] [[DOI Link](#)]
18. Blalock, G. and Veloso, F.M. 2007. Trade, Imports, Productivity Growth, and Supply Chain Learning. *World Development*. 35(7): 1134-1151 [[DOI Link](#)]

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#### *Other journal publications*

19. Gonzalez-Brambila, C., Reyes-Gonzalez, L., Veloso, FM 2016. "Using co-authorship and citation analysis to identify research groups: A new way to assess performance", Forthcoming at *Scientometrics*. [[DOI Link](#)]
20. Lowe, R. and Veloso, FM. 2015. "Patently Wrong? Firm Strategy and the Decision to Disband Technological Assets." Forthcoming at *European Management Journal*. 12(2): 83-98, [[DOI Link](#)]
21. Branstetter, L.; Li, Guangwei and Veloso, F. 2013. "The Truth about China's Patent Boom. *Scientific American* 309(4) October.
22. Horta, H., Dautel, V and Veloso, FM. 2012. "An output perspective on the teaching research nexus: an analysis focusing on the United States higher education system." *Studies in Higher Education*. 37(2): 171-187 [[DOI Link](#)]
23. Lee, J., and Veloso, F.M., Hounshell, D. and Rubin E., 2010. "Forcing technological change: a case of automobile emissions control technology development in the U.S." *Technovation*. 30(4): 249-264 [[DOI Link](#)]
24. Gonzalez-Brambila, C., Lever, J. and Veloso, F.M., 2007. "Mexico's Innovation Cha-cha." *Issues in Science & Technology*. Fall 07: Global Tour of Innovation Policy, Sep 22. [[DOI Link](#)]
25. Horta, H. and Veloso, F.M., 2007. Opening the box: comparing EU and US scientific output by scientific field. *Technological Forecasting and Social Change*, 74: 1334-1356. [[DOI Link](#)]
26. Veloso, F.M., 2006. Understanding Local Content Decisions: Economic Analysis and an Application to the Automotive Industry. *Journal of Regional Science*, 46(4): 747-772. [[DOI Link](#)]
27. Veloso, F. and Fuchs, E., 2004. The Future of the Automobile Industry in Asia: Regional Integration, Alternative Designs & Chinese Leadership, *International J. of Vehicle Design*, 35(1/2) [[Link](#)]
28. Veloso, F. and Roth, R., 2003. Cost Implications of the eSupply Chain in the Auto Industry: Results from a Simple Model, *International Journal of Technology Policy and Management*, 3(2) [[DOI Link](#)]
29. Veloso, F. and Kumar, R., 2003. The Automotive Supply Chain: Global Trends and Asian Perspectives, *International Journal of Business and Society*, 4(2), July. Previously *Asian Development Bank ERD Working Paper Series n° 3*, January 2002. [article on the [top 50 downloads](#) from adb.org for in 2002] [[Link](#)]
30. Conceição, P., Heitor, M. and Veloso, F., 2003. Infrastructures, Incentives and Institutions: Fostering Distributed Knowledge Bases for the Learning Society. *Technological Forecasting & Social Change*. 70(7):583-617 [[DOI Link](#)]
31. Veloso, F. and Soto, J., 2001. Incentives, Infrastructure and Institutions: Perspectives on Industrialization and Technical Change, *Technological Forecasting and Social Change*, 66(1): 87-109. [[DOI Link](#)]
32. Veloso, F. and Fixson, S., 2001. Make-Buy Decisions in the Auto Industry: New perspectives on the role of the supplier as an innovator, *Technological Forecasting and Social Change*, 67(2-3): 239-257 [[DOI Link](#)]
33. Pinto, I., Veloso, F. and Felizardo J., 1997. Alternative paths for the development of technological competences in the Portuguese Industry: A case study approach, *Industry and Higher Education*, February.

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#### *Edited Books and Volumes*

34. Conceição, P., Ferreira, P., Tavares, J.A., Vasconcelos, N. and Veloso, F. (eds.), 2003. *Investing in the future: University Industry Collaborations in Portugal and USA*. Lisboa: Edições Gradiva (in Portuguese).
35. Conceição, P., Gibson, D., Heitor, M., Sirilli, G. and Veloso, F. (eds.), 2002. *Knowledge for Inclusive Development*. Westport, CT: Quorum Publishers.
36. Veloso, F., Henry, C., Roth, R., Clark, J., 2000. *Global Strategies for the Development of the Portuguese Autoparts Industry*. Lisboa: IAPMEI, May 2000.

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#### *Chapters published in Edited Volumes*

37. Branstetter, L.; Li, Guangwei and Veloso, F. 2015. "The Rise of International Co-invention" in *The Changing Frontier: Rethinking Science and Innovation Policy*, Adam Jaffe and Benjamin Jones (Eds). NBER, Cambridge.
38. Horta, H and Veloso, F. M., 2008. "Scientific Output, Social Infrastructure and Science Policies: the Case of Small and Medium-sized Countries," in van Geenhuizen, Trzmielak and Gibson (Eds), *Value-Added Partnering and Innovation in a Changing World*. Purdue University Press.
39. Costa, T., Videira, A. and Veloso, F., 2006. "Assessing Value Creation and Backward Linkages in Foreign Investment: A Combination of Macro and Micro Tools." In Tavares, A.T. and Teixeira, A.C. (eds.) *Multinationals, Clusters and Innovation: does public policy matter?* N. Y.: Palgrave Macmillan.
40. Botelho, A.J., Stefanuto, G., and Veloso, F., 2005. "The Brazilian Software Industry." In Arora, A. and Gambardella, A., *From Underdogs to Tigers: The Rise and Growth of the Software Industry in Some Emerging Economies*. Oxford University Press.
41. Selada, C. Veloso, F., Videira, A. and Felizardo, J., 2002. "The Technology and Innovation Audit Methodology TEC+: Use for a Company in the Car Component Sector in Portugal," in Conceição, P., Gibson, D., Heitor, M., Sirilli, G. and Veloso, F. (eds.), *Knowledge for Inclusive Development*. Westport, CT: Quorum Publishers.

42. Veloso, F. and Felizardo, J., 2000. "Perspectives for the Autoparts Industry in late-Developing Countries: A Case Study," in Conceição, P., Gibson, D., Heitor, M. and Shariq, S. (eds.), *Science, Technology and Innovation Policy: Opportunities and Challenges for the 21<sup>st</sup> Century*. Westport, CT: Quorum Publishers
43. Veloso, F. e Felizardo, J., 1998. "As Universidades e a Educação Empreendedora," in Conceição, P., Santos, F. e Heitor, M., *Novas Ideias para a Universidade*, Lisboa, IST Press. (in Portuguese)
44. Veloso, F., 1998. "Infraestruturas Tecnológicas, para além da interface universidade-indústria," in Conceição, P., Santos, F. e Heitor, M., *Novas Ideias para a Universidade*, Lisboa, IST Press. (in Portuguese)

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#### *Manuscripts in under review*

1. *Jacobides, M. Wolter, C and Veloso, F.* "Ripples through the Value Chain: How an Upstream Innovation Shapes Profit (and Scope) in an Industry." Under review
2. Jahanbakht, M., Mostafa, R and Veloso, F.m. "A North-South-sSouth Framework of Industrial Development: Experimentation in and Internationalization across Mobile Telecommunications Markets of Africa." Under review
3. Zejnilovic, L, Veloso, F.M. and Oliveira, P. "Employees as User Innovators: An Empirical Investigation of an Idea Management System." Under review

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#### **Consulting and Advising Activity**

- Projects and advising with a variety of organizations and firms including: Alcoa, GALP, NOS, McKinsey, Pininfarina, Asian Development Bank, DG Enterprise, Feedzai, Ambrosetti – European House, Sodecia, among others.

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#### **Teaching**

- Several hundred hours of Executive Education Seminars/Courses in Strategy, Innovation and Entrepreneurship (since 2000)
- Technology Strategy to MSc students at Católica (Since 2010)
- Strategy and Management of Technological Innovation to MSc students at Carnegie Mellon (2007 to 2012)
- Technology Strategy to MSc students at Católica (2010 to 2014)
- Technology Strategy to the Lisbon MBA (2011 to 2013)
- Operations Management to the Lisbon MBA (2006 to 2012)
- Science, Technology and Innovation Policy to graduates at Carnegie Mellon (2004 to 2007)
- Project Course on Engineering and Public Policy at Carnegie Mellon (2003, 2006\*) \*winner of the best project course
- Operations Management to MBA at Católica (2002 to 2007) and undergraduates (2001)
- Supply Chain Management to graduates at Católica (2010)

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#### **Invited Research Presentations and Seminars**

- 2014 Carnegie Mellon University, Pittsburgh (October)
- 2013 ITAM, Mexico (October)
- 2012 Stanford University (February)
- 2011 European Commission, Brussels (November); Ericsson Nikola Tesla, Zagreb (November)
- 2010 London Business School (September); Copenhagen Business School (November); INESC (November); IESE (December)
- 2009 Harvard Business School (April); MIT - ESD, (June); Ambrosetti, European House, Italy (October); EPFL (November)
- 2008 Ambrosetti, European House, Italy (September); Faculty Engineering, Univ. Porto, Portugal (September)
- 2007 European Commission (November); MIT (June, through the International Motor Vehicle Program)
- 2006 New York University (March); MIT (June, through the International Motor Vehicle Program); Universidade Acores, Portugal (June); Instituto Superior Técnico, Portugal (June)
- 2005 Instituto Superior Técnico, Portugal (February); Wharton School, U. Pennsylvania (June, through the International Motor Vehicle Program); Faculdade de Economia, Amarante, Portugal (May); Instituto Superior Técnico, Portugal (May, through Globelics PhD school) IMVP Sponsors Meeting Seoul, SK and Tokyo, JP (October).
- 2004 Instituto Superior Técnico, Portugal (March); MIT (May, through the International Motor Vehicle Program); Instituto Superior de Economia e Gestão, Portugal (June, through Globelics PhD school); Faculdade de Economia Porto (May).
- 2003 Wharton School, U. Pennsylvania (April, through the International Motor Vehicle Program); Instituto Superior Técnico, Portugal (June); CIDE, Mexico City (November); Carnegie Mellon University (November); ITS – Software Technology Institute, Brazil (December)
- 2002 Carnegie Mellon University (March), Universidade de Campinas, Brazil (May), Instituto Superior Técnico, Portugal (October), Secretary of State for Science and Technology, Parana, Brazil (October)
- 2001 Universidade Catolica Portuguesa (November), Massachusetts Institute of Technology (May); Carnegie Mellon (April)

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#### **Thesis Supervised**

- Theses of C.Gonzalez (2005); J.Lee (2006); B.Fifarek (2009) and C.Wolter (2011) won best dissertation awards
- 2015 Jahanbakht, Mohammad. The Role of Entrepreneurship in the Development of the African Mobile Telecommunications Industry. Doctoral Dissertation, Department of Engineering & Public Policy, Carnegie Mellon and Católica Lisbon School of Business and Economics. Co-supervisor. Employment: Assistant Professor in Salem State University, MA, USA.  
Kemeny, Carlos. *Three studies on institutional environment and the private equity continuum: from early-stage venture capital investments to buyouts*. Doctoral Dissertation, Department of Engineering & Public Policy, Carnegie Mellon and Católica Lisbon School of Business and Economics. Co-supervisor. Employment: Assistant Director at the Provost office for Purdue University, IN, USA.

- 2014 Zejnilovic, Leid. *Essays on User Innovation*. Doctoral Dissertation, Department of Engineering & Public Policy, Carnegie Mellon and Católica Lisbon School of Business and Economics. Co-supervisor. Employment: Post-doc at Católica-Lisbon
- van der Boor, Paul. *Three Studies on Innovation and Diffusion: Evidence from Mobile Banking in Developing Countries and a User Innovation Survey in Portugal*. Doctoral Dissertation, Department of Engineering & Public Policy, Carnegie Mellon and Católica Lisbon School of Business and Economics. Co-supervisor. Employment: McKinsey & Co.
- 2013 Cheyre, Cristobal. *Inventor Mobility, Knowledge Spillovers and Spinoff Entry in the U.S. Semiconductor Industry: Regional Patterns, Determinants, and Learning Implications*. Doctoral Dissertation, Department of Engineering & Public Policy, Carnegie Mellon. Supervisor. Employment: Postdoctoral Fellow at Carnegie Mellon University.
- 2012 Kowalski, Jonathan. *Industry Location Shift through Technological Change - A Study of the US Semiconductor Industry*. Doctoral Dissertation, Department of Engineering & Public Policy, Carnegie Mellon. Supervisor. Employment: McKinsey & Co. **Finalist** in the 2013 Industry Studies Best Dissertation Award.
- Reyes-Gonzalez, Leonardo. *Research Collaboration, Academic Stars and the Evolution of Science Systems*. Doctoral Dissertation, Department of Engineering & Public Policy, Carnegie Mellon. Supervisor. Employment: Mastercard Mexico
- 2010 Wolter, Claudio. *Technological Competences and Firm Boundaries: An Empirical and Conceptual Investigation of Diversification, Vertical Integration and Profitability*. Doctoral Dissertation, Department of Engineering & Public Policy, Carnegie Mellon. Supervisor. **Winner** of the Best Dissertation Award of the INFORMS Technology Management Section in 2011. **Winner** (2<sup>nd</sup> place) of the 2010 Industry Studies Best Dissertation Award. Employment: Post Doctoral Fellow at Carnegie Mellon University.
- 2008 Fifarek, Brian. *Globalization, offshoring, and the location of innovation: A case study of rare earth technology*. Doctoral Dissertation, Department of Engineering & Public Policy, Carnegie Mellon. Co-supervisor. **Winner** of the Best Dissertation Award of the INFORMS Technology Management Section in 2009. **Finalist** for the 2008 Sloan Industry Studies Best Dissertation Award. Employment: Technology Leadership Program, Eaton Corporation.
- Hamilton, Matt. *Exploring Intervention to the Regional Institutions for Innovation: Technology-based Economic Development*. Doctoral Dissertation, Department of Engineering & Public Policy, Carnegie Mellon. Co-supervisor. Employment: Chairman, Wellspring International.
- 2007 Horta, Hugo. *Academic R&D: On Funding, Diversity And Autonomy Towards An Improved Knowledge Infrastructure*. Doctoral Dissertation, Departamento de Engenharia e Gestão Industrial. Instituto Superior Técnico, Universidade Técnica de Lisboa. Co-supervisor. Employment: Assistant Professor, The University of Hong Kong.
- Vaccaro, Antonino. *Information and Communication Technologies, Knowledge Based Processes and Firm Innovation*. Doctoral Dissertation, Departamento de Engenharia e Gestão Industrial. Instituto Superior Técnico, Universidade Técnica de Lisboa. Co-supervisor. **Finalist** for the 2007 Sloan Industry Studies Best Dissertation Award. Employment: Assistant Professor at IESE.
- 2005 Lee, Jaegul. *Innovation in Automotive Emission Control Technologies: Government Actions, Sources of Innovation, and Innovation Strategy*. Doctoral Dissertation, Department of Engineering & Public Policy, Carnegie Mellon. **Winner** of the 2006 Sloan Industry Studies Best Dissertation Award. Co-supervisor. Employment: Assistant Professor, Wayne State University.
- Gonzalez-Brambila, Claudia. *Exploring Academic Scientific Productivity for the Design of Public Policies*. Doctoral Dissertation, Department of Engineering & Public Policy, Carnegie Mellon University. **Winner** of the Best Dissertation Award of the INFORMS Technology Management Section in 2006. Employment: Assistant Professor, ITAM, Mexico.
- 2001 Monteiro, A. *Production Cost Modeling for the Automotive Industry. Dissertation requirement for MSc in Engineering Policy and Management of Technology at Instituto Superior Tecnico, UTL.* Co-supervisor.
- Vieira, A. *Dinâmicas de Aprendizagem no Contexto de uma Economia em Estádio Intermédio de Desenvolvimento: Casos de Estudo no Sector de Componentes Automóvel*. Dissertation requirement for MSc in Engineering Policy and Management of Technology at Instituto Superior Tecnico, UTL. Co-supervisor.
- Reis, L. *Factores Estratégicos de Desenvolvimento da Indústria de Componentes Automóvel em Portugal: Os Determinantes da Qualidade das Empresas*. Dissertation requirement for MSc in Engineering Policy and Management of Technology at Instituto Superior Tecnico, UTL. Co-supervisor

### Papers Presented in Conferences

- 2015 Mostafa, R, Jahanbakht, M and Veloso, F. A North-South-South Framework of Industrial Development: Experimentation in and Internationalization across Mobile Telecommunications Markets of Africa. SMS Special Conference Santiago, March, 2015.
- 2014 Li, Guangwei and Veloso, FM. "New Developments in Idea Sharing: Intrafirm Knowledge Flow Across Borders Through Co-Invention." Academy of Management, Philadelphia, August 2014.
- Kemeny, C. Castellaneta, F. Conti, R and Veloso, F.M. "How does Uncertainty Affect Venture Capital Investment? Evidence from Venture Capital Disclosure." Academy of Management, Philadelphia, August 2014.
- 2012 Cheyre, C., Klepper, S., and Veloso, F. "Spinoffs and the Mobility of US Merchant Semiconductor Inventors." Academy of Management, Boston, August 2012.
- van der Boor, P; Oliveira, Pedro and Veloso, F. "Innovation by users in emerging economies: evidence from mobile banking services," Academy of Management, Boston, August 2012.
- Zejnilovic, L.; Oliveira, P. and Veloso, F. "Employees as User Innovators: An Empirical Investigation of an Idea Management System." Academy of Management, Boston, August 2012.

- Jahanbakht, M., Veloso, F., Hounshell, D. and Baptista, R. The Role Of Entrepreneurship In The African Mobile Industry Growth. Academy of Management, Boston, August 2012.
- Jahanbakht, M., Veloso, F., Hounshell, D. and Baptista, R. The Role Of Entrepreneurship In The African Mobile Industry Growth. Industry Studies Association Annual Meeting, Pittsburgh, May 2012.
- 2011 Jacobides, M.G., Veloso, F.M. and Wolter, C. Scope, Boundary Choices and Profit Evolution over the Industry Life-Cycle. SMS, Miami, November 2011.
- Cheyre, C., Klepper, S., and Veloso, F. Spinoffs and the Mobility of US Merchant Semiconductor Inventors. Darden Conference on Technology and Entrepreneurship, Charlottesville, May 2011.
- Cheyre, C., Klepper, S., and Veloso, F. Spinoffs and the Mobility of US Merchant Semiconductor Inventors. Industry Studies Annual Conference, Pittsburgh, May 2011.
- 2010 Jacobides, M.G., Veloso, F.M. and Wolter, C. Scope, Boundary Choices and Profit Evolution over the Industry Life-Cycle. INFORMS, Austin, November 2010.
- Reyes-Gonzalez, L. and Veloso, F. Birth and Evolution of Stars: Does Heritage Matter in Science? INFORMS, Austin, November 2010.
- Klepper, S., Kowalski, J. and Veloso, F. Technological Spillovers and the Agglomeration of the Semiconductor Industry in Silicon Valley. Academy of Management, Chicago, August 2010.
- Klepper, S., Kowalski, J. and Veloso, F. Technological Spillovers and the Agglomeration of the Semiconductor Industry in Silicon Valley. EUROMA, Porto, June 2010.
- Klepper, S., Kowalski, J. and Veloso, F. Technological Spillovers and the Agglomeration of the Semiconductor Industry in Silicon Valley. Tilburg Conference on Innovation, Tilburg, June 2010.
- Klepper, S., Kowalski, J. and Veloso, F. Technological Spillovers and the Agglomeration of the Semiconductor Industry in Silicon Valley. Darden Conference on Technology and Entrepreneurship, Charlottesville, May 2010.
- Klepper, S., Kowalski, J. and Veloso, F. Technological Spillovers and the Agglomeration of the Semiconductor Industry in Silicon Valley. Industry Studies Annual Conference, Chicago, May 2010.
- 2009 Klepper, S., Kowalski, J. and Veloso, F. Technological Spillovers and the Agglomeration of the Semiconductor Industry in Silicon Valley. INFORMS Annual Meeting, San Diego, October.
- Wolter, C., Jacobides, MG and Veloso, F. Value Chain Dynamics: From Scope to Profit Evolution given Modular and Architectural Innovation. Academy of Management, Chicago, August.
- Horta, H., Veloso, F. and Grediaga, R., "Navel gazing: Academic inbreeding and scientific productivity." Academy of Management, Chicago, August.
- Fifarek, Brian J., Veloso, Francisco M., "Offshoring and the geography of innovation." Industry Studies Annual Conference, Chicago, May.
- Wolter, C., Jacobides, MG and Veloso, F. Value Chain Dynamics: From Scope to Profit Evolution given Modular and Architectural Innovation. Production and Operations Management Annual Meeting. Orlando, May.
- 2008 Fifarek, Brian J., Veloso, Francisco M. and Davidson, Cliff I., "Offshoring and the geography of innovation." INFORMS Annual Meeting. Washington DC, October.
- Veloso, F. and Reyes-Gonzalez, L. The Evolution and Performance of Research Groups. INFORMS Annual Meeting. Washington DC, October.
- Gonzalez-Brambila, C., Veloso, F.M. and Krackhardt. D. "Social Capital and the Creation of Knowledge." 2008 Industry Studies Annual Conference, Cambridge, MA. May.
- Fifarek, Brian J., Veloso, Francisco M. and Davidson, Cliff I., "Offshoring and the location of innovation." Production and Operations Management Annual Meeting. San Diego, May. Runner up for best unpublished paper Award.
- Vaccaro, A., Brusoni S., Veloso, F. "Knowledge Creation In Virtual Design Teams: A Longitudinal Study." Academy of Management, Anaheim, August.
- Fifarek, Brian J., Veloso, Francisco M. and Davidson, Cliff I., "Offshoring and the location of innovation." Academy of Management, Anaheim, August.
- 2007 Vaccaro, A., Brusoni S., Veloso, F. "The Impact of Virtual Design Tools on Knowledge Replication and Recombination." Academy of Management Philadelphia, August.
- Vaccaro, A., Parente, R. Veloso, F. "Knowledge Management Tools, Innovation Capabilities and Firm Performance." Academy of Management, Philadelphia, August.
- Wolter, C. and Veloso, F. "The Effects of Innovation on Vertical Structure: A Conceptual Computational Model." Academy of Management, Philadelphia, August.
- Wolter, C. and Veloso, F. "Innovation and Vertical Structure: A Conceptual Computational Model." Automotive Mini-Conference, Wharton School of Management, Philadelphia, June.
- Vaccaro, A. Brusoni S., Veloso F. "The Role of Virtual Design Tools on Knowledge Replication and Recombination: An Empirical Investigation." DRUID, Copenhagen, June.
- Vaccaro, A. Brusoni S., Veloso F. "The Role of Virtual Design Tools on Knowledge Replication and Recombination: An Empirical Investigation." Mini-Conference on Barriers to Intra- and Inter-firm Knowledge Transfer, Copenhagen, June.
- Fifarek, Brian J., F.M. Veloso and C.I. Davidson. "The internationalization of industry supply chains and the location of innovation activities." Sloan Industry Studies Annual Conference, Cambridge, May.

- Lee, J, Hounshell, D. and Veloso, F. "Innovation and Technology Policy: Lessons from Emission Control and Safety Technologies in the U.S. Automobile Industry." Sloan Industry Studies Annual Conference, Cambridge, May.
- Vaccaro, A. Veloso F., Brusoni S. "The Virtualization of knowledge based processes: an empirical investigation." Organization Science Winter Conference, February.
- 2006 Brambila, C., Veloso, F., Krackhardt, D. Social Capital and the Creation of Knowledge. INFORMS Annual Meeting, Pittsburgh, October.
- Vaccaro A., Veloso F., Parente R., Virtual knowledge management, the effectiveness of innovative activities and the impact on firms' performances, INFORMS Annual Meeting, Pittsburgh, October.
- Vaccaro A. and F. Veloso, The virtualization of firms' knowledge creation processes: an empirical investigation in the automotive sector, Academy of Management Conference, Atlanta, August
- Wolter, C. and Veloso, F. Transaction Costs, Capabilities and Innovation: Implications for Vertical Structure. Academy of Management Conference, Atlanta, August.
- Brambila, C., Veloso, F., Krackhardt, D. Social Capital and the Creation of Knowledge. Academy of Management Conference, Atlanta, August.
- Reyes-Gonzalez, Leonardo and Veloso, Francisco. Evaluation of Research Groups: An endogenous approach. The Atlanta Conference on Science and Technology Policy 2006. Georgia Institute of Technology, Atlanta May 2006.
- 2005 Lee, J., Hounshell, D. and Veloso, F. Dominant Design and Population Dynamics for Complex Technological Systems: the Case of Catalytic Auto Pollution Control. INFORMS Annual Meeting, San Francisco, November.
- Wolter, C. and Veloso, F. Transaction Costs, Capabilities and Innovation: Implications for Vertical Structure. INFORMS Annual Meeting, San Francisco, November.
- Lee, J. and Veloso, F., Knowledge Partitioning and Inter-firm Innovation: An empirical Case Analysis. PICMET - Portland International Conference on the Management of Engineering and Technology, July. [Won award for best student paper]
- Lowe , R. and Veloso, F. Patently Wrong? Firm Strategy and the Decision to Disband Technological Assets. Academy of Management, Honolulu, August.
- Lee, J. and Veloso, F., Knowledge Partitioning and Inter-firm Innovation: An empirical Case analysis. Academy of Management, Honolulu, August.
- Vaccaro A. and F. Veloso, The role of ICT on technological knowledge based processes: an empirical investigation, Proceedings of the 8th International Conference on Technology Policy and Innovation, Lodz, July.
- Lowe , R. and Veloso, F. Patently Wrong? Firm Strategy and the Decision to Disband Technological Assets. Wharton Technology Mini-Conference, Philadelphia, April.
- 2004 Lowe , R. and Veloso, F. Patently Wrong? Firm Strategy and the Decision to Disband Technological Assets. INFORMS Annual Meeting, Denver, October.
- Lee, J, Hounshell, D., Rubin, E. and Veloso, F. The Influence of Technology Forcing Government Regulation on Innovation in Automotive Emission Control Technologies. Academy of Management, New Orleans, August
- Wolter, C., Veloso, F and Steinemann, P., Technological diversification and economic performance: A within industry perspective. Academy of Management, New Orleans, August.
- Benner, M. and Veloso, F., Process Management Practices and Performance: The Moderating Effect of Technological Capabilities in the Automotive Components Sector. Academy of Management, New Orleans, August.
- Lowe , R. and Veloso, F. Patently Wrong? Firm Strategy and the Decision to Disband Technological Assets. International Schumpeter Society Meeting, Milan, June.
- 2003 Conceição, P., Heitor, M.H. and Veloso, F. Innovative Shocks and Productivity. What Do We Know About Innovation? A Conference in honour of Keith Pavitt. SPRU, Sussex, November.
- Wolter, C., Veloso, F and Steinemann, P., Technological diversification and economic performance: A within industry perspective. INFORMS Annual Meeting, Atlanta, October.
- Blalock, G. and Veloso, F. Trade, Technology Transfer and The Supply Chain: The Neglected Role of Imports. Academy of Management, Seattle, August.
- Veloso, F. Performance Standards, Information and Local Content Decisions. Eastern Academy of Management, Porto, June 2003.
- Wolter, C., Veloso, F and Steinemann, P., Veloso, F. Diversification and Performance: The Role of Technology. POMS Annual Meeting. Savannah, April.
- 2002 Veloso, F. Performance Standards, Information and Local Content Decisions. INFORMS Annual Meeting, San Jose.
- Veloso, F. and Conceicao, P. Is Investing in Innovation Unproductive? Academy of Management. Denver, Colorado. Paper nominated for the all Academy Carolyn Dexter Award.
- 2001 Veloso, F. and Roth, R. eSupply Chain in the Auto Industry: Cost Implications of Physical and Digital Proximity. INFORMS Annual Meeting. Miami Beach.
- Kirchain, R., Veloso, F. and Roth, R. Comparing Process-Based Costing Methods: A Trade-Off between Accuracy & Data Intensity. INFORMS Annual Meeting. Miami Beach.
- Veloso, F. Local Content Requirement and Industrial Development: Economic Analysis and Cost Modeling of the Automotive Supply Chain. Academy of Management. Washington D.C.

- Veloso, F and Roth, R., New Technologies in Emerging Markets. Understanding Technology, Market and Policy Constraints to the Adoption of Advanced Automotive Technologies. Proceedings of the 34<sup>th</sup> Hawaii International Conference on System Sciences.
- 2000 Veloso, F. Henry, C. and Roth, R. Can Small firms leverage global competition? Evidence from the Portuguese and Brazilian Automotive Supplier Industries. *Proceedings of the 4th International Conference on Tech. Policy and Innovation*, Curitiba, Brazil.
- 1999 Veloso, F. and Fixson, S., Make-Buy Decisions in the Auto Industry: New perspectives on the role of the supplier as an innovator. *Proceedings of the 3rd International Conference on Technology Policy and Innovation*, Austin, Texas
- Selada, C., Videira, A., Felizardo, J. and Veloso, F., Technological Capabilities and Organizational Patterns: Results from the Technology and Innovation Audit Program in the Portuguese Moulds Industry. *Proceedings of the 3rd International Conference on Technology Policy and Innovation*, Austin, Texas
- 1998 Veloso, F. and Soto, J., Firms, Institutions, industrial Strategies and Technology Development: Evidence from the Auto Industry in Taiwan and Mexico, *2nd International Conference on Tech. Policy and Innovation*, Lisboa, Portugal
- Veloso, F. Strategy & Power: Firms and Governments in Industrial Development. INFORMS Annual Meeting, Seattle.
- Technology Auditing: A case study in the Portuguese Autoparts Industry. *Proceedings of the 2nd International Conference on Technology Policy and Innovation*, Lisboa
- 1997 Veloso, F. and Felizardo, J., Challenges and Perspectives for the Portuguese Autoparts Industry, *Proceedings of the 1st International Conference on Technology Policy and Innovation*, Macau.
- Heitor, M., Conceição, P. and Veloso, F., On the Definition of a Public Policy Towards the Financing of Technology Infrastructures. *Proceedings of the 30th Annual Hawaii International Conference on System Sciences*, Maui, Hawaii.
- 1995 Veloso, F. e Felizardo, J., TEC+ Technology development to improve Competencies and Capabilities in Portuguese Firms. *Proceedings of the 5th International Forum on Technology Management*, Espoo, Finland.
- 1991 Veloso, F., Frias, M. and Diogo, A. C., Análise Dinâmico-Mecânica de fibras e compósitos flexíveis de matriz polimérica. Correlações com propriedades finais. *Annual Meeting of Sociedade Portuguesa de Materiais*, November

#### Major Independent Contracts and Studies

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- 2006 *Assessing the Impact and Productivity of Mexican Science & Technology in a Global Context*. Study commissioned by CONACYT, the Mexican Council for Science and Technology. Project developed with C. Gonzalez and L. Reyes.
- 2005 *Assessment of Portuguese National Innovation Plan*. Commissioned by the Portuguese Ministry of Science, Technology and Higher Education of the XVII Government to lead independent team to assess the Innovation Plan proposed by the XVI Government.
- 2002/4 Brazilian Government grant to study the development of the local software industry. Led to two reports: Giannelli, B., Hochman, N., Botelho, A., Stefanuto, G., Vagheti, C. and Veloso, F. *Leveraging the Knowledge Economy in Brazil The Software Industry* (in Portuguese). Softex; Parana Tecnologia. Veloso, F., Botelho, A., Tschang, T. and Amsden, A., 2004. *Slicing the Knowledge-based Economy in Brazil, China and India: A Tale of three software Industries*. Mimeo.
- 2002 *Preliminary Study for Metrocubo Portugal*. Part of the team of MIT researchers contracted by IAPMEI (the Portuguese industry development agency) to study, in collaboration with Pininfarina, the economics of developing and producing an innovative hybrid niche vehicle in Portugal
- 2000 *Global Strategies for the Development of the Portuguese Autoparts Industry*. Lead researcher in project contracted by IAPMEI (the Portuguese industry development agency) to assess the competitiveness of the Portuguese autoparts industry, evaluate future scenarios and suggest future policies. A Book with the results of the project has been published jointly with J. Clark, R. Roth and C. Henry.
- 2000 *EProcurement Strategies for the Portuguese Government*. Member of the working group commissioned by the national Minister of Science and Technology to propose a strategy for eProcurement in the Portuguese Government. This effort led to a report: Caupers, J., Lorena, A., Veloso, F., Oliveira, L. and Amorim, P. *Aquisição de bens por via electrónica pela Administração Pública*. Relatório do Ministério da Ciência e Tecnologia no âmbito da RCM 143/2000 de 27/9.
- 2000 *The automotive supply chain: Global trends and Asian perspective*. Background paper contracted by the Asian Development Bank for Project on International Competitiveness of Asian Economies. September.
- 2000 *The vertical integration of the component supplier chains and its impact on multi-tier supplier relations*. Contract paper developed together with Joel Clark and presented at the European Union workshop, "The Automotive Industry: Component Suppliers; current and prospective regulatory approaches" organized by the European Commission, DG Enterprise. Lisbon, May.
- 1996 *Strategies for the Development of the Thai Autoparts Industry*. Researcher in project to study the development of the autoparts industry in Mexico and Taiwan and suggest strategies for Thailand. The work, led by Prof. Alice Amsden, was sponsored by the Thai Government. The effort led to the Report joint with Soto, J. and Amsden, A., *A comparative assesment of the development of the Autoparts Industry in Mexico and Taiwan: Policy implications for Thailand*, MIT.

#### Other Professional Experience

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ITEC, RESEARCH AND INNOVATION CONSORTIA, Lisboa, PORTUGAL  
*Research and Development Manager* (1992-1996)

#### Societies

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- Academy of Management; INFORMS; POMS, IMVP, ISA, SMS