



## CURRICULUM VITAE (CVA)

**IMPORTANT – The Curriculum Vitae cannot exceed 4 pages. Instructions to fill this document are available in the website.**

### Part A. PERSONAL INFORMATION

CV date

05/04/2023

First name	Alfred		
Family name	Peris Manguillot		
Gender (*)	Male	Birth date (dd/mm/yyyy)	06/11/1966
ID number	20803496L		
e-mail	aperis@upv.es	URL Web	
Open Researcher and Contributor ID (ORCID) (*)		0000-0003-1683-2373	

(\*) Mandatory

### A.1. Current position

Position	Catedrático de Universidad (Professor)		
Initial date	04/01/2007		
Institution	Universitat Politècnica de València		
Department/Center	Institut Universitari de Matemàtica Pura i Aplicada		
Country	Spain	Tel. number	+34 618276004
Key words	Dynamics of operators, Chaos, Fréchet spaces		

### A.2. Previous positions (research activity interruptions, art. 14.2.b))

Period	Position/Institution
2016-2020	Director Inst. Univ. Matemàtica Pura i Aplicada/Universitat Politècnica de València
2004-2016	Director Departament Matemàtica Aplicada/Universitat Politècnica de València
1999-2006	Profesor Titular de Universidad (Associate Professor)/ Universitat Politècnica de València
1996-1999	Profesor Titular de Escuela Universitaria (Associate Professor)/ Universitat Politècnica de València

### A.3. Education

PhD, Licensed, Graduate	University/Country	Year
PhD in Mathematics	Universitat de València/Spain	1992
Bachelor in Mathematics	Universitat de València/Spain	1989

### Part B. CV SUMMARY (max. 5000 characters, including spaces)

Number of PhD Thesis advised: 10 (7 in the last 10 years). Total citations (Web of Science): 2378. Total citations (Scopus): 2273. H-index (Web of Science): 29. H-index (Scopus): 28

More than 85 research articles published in international mathematical journals. Member of more than 15 research projects, being Principal Investigator in 10 of them.

In 1996 received the International Prize "Lucien Godeaux" of Mathematics from the Société Royale des Sciences de Liège (Belgium). The call for this prize is announced every 5 years in widely known mathematical journals (e.g., Notices of the American Mathematical Society, Bulletin of the European Mathematical Society).



More than 80 contributions (Plenary talks, communications, etc) of research results in different international meetings of Mathematics. Several citations from different authors show the relevance of the research for the scientific community. Apart from the bibliometric data provided above, included in the ranking of top 1% most cited researchers in Mathematics, by "Essential Science Indicators" of Clarivate Analytics, and referred to the last 10 years. Updated citations and production in Web of Science can be obtained in <http://www.researcherid.com/rid/A-7249-2008>. In the Spanish Ranking of Researchers accordingly to H-Index (see <https://grupodih.info/matemat.html>), 4th position in Spain in the field of Mathematics. Referee of several international mathematical journals. Among them: Discrete and Continuous Dynamical Systems A, Proc. London Math. Society, Proc. American Math. Society, J. Math. Anal. Appl., Int. Equat. Oper. Theory, Studia Math., Nonlinear Analysis, Nonlinearity, J. Operator Theory, Math. Zeitschrift, Rev. Mat. Iberoamericana, Ergodic Theory Dyn. Syst., Proc. Edinburgh Math. Soc., Int. J. of Bifurcation and Chaos, Rev. Mat. Complutense, RACSAM, Applied Math. Letters, Commun. Pure Appl. Anal., J. Diff. Equat. Appl., Ann. Institut Henri Poincaré.

Head of the Applied Mathematics Department of Universitat Politècnica de València from June, 2004, until November, 2016. Head of the Institute for Pure and Applied Mathematics of Universitat Politècnica de València from December, 2016, until January of 2021. Editor of 4 international journals in mathematics.

## Part C. RELEVANT MERITS

### C.1. Publications (*Up to 10 in the last 10 years*)

**1** Scientific paper. Antonio Bonilla; Karl-G. Grosse-Erdmann; Antoni López-Martínez; Alfred Peris. 2022. Frequently recurrent operators. **Journal of Functional Analysis**. Elsevier. 283-12, art. n.109713. ISSN 0022-1236. <https://doi.org/10.1016/j.jfa.2022.109713> Citations in WoS (0)

**2** Scientific paper. Bonet J.; Kalmes T.; Peris A. 2021. Dynamics of shift operators on non-metrizable sequence spaces. **Revista Matemática Iberoamericana**. 37, pp.2373-2397. ISSN 02132230. <https://doi.org/10.4171/rmi/1267> Citations in WoS (0)

**3** Scientific paper. Lizama, C.; Murillo-Arcila, M.; Peris, A. 2020. Nonlocal operators are chaotic **CHAOS**. American Institute of Physics (AIP). 30 art.n. 103126. ISSN 1054-1500. <https://doi.org/10.1063/5.0018408> Citations in WoS (2)

**4** Scientific paper. Bermudez, T.; Bonilla, A.; Muller, V.; Peris, A. 2020. Cesaro bounded operators in Banach spaces. **Journal d'Analyse Mathématique**. Hebrew Univ Magnes Press. 140-1, pp.187-206. ISSN 0021-7670. <https://doi.org/10.1007/s11854-020-0085-8> Citations in WoS (3)

**5** Scientific paper. Bernardes, N. C., Jr.; Bonilla, A.; Peris, A. 2020. Mean Li-Yorke chaos in Banach spaces. **Journal of Functional Analysis**. Elsevier. 278-3. ISSN 0022-1236. <https://doi.org/10.1016/j.jfa.2019.108343> Citations in WoS (11)

**6** Scientific paper. Bes, J.; Menet, Q.; Peris, A.; Puig, Y. 2019. Strong transitivity properties for operators. **Journal of Differential Equations**. Elsevier. 266-2-3, pp.1313-1337. ISSN 0022-0396. <https://doi.org/10.1016/j.jde.2018.07.076> Citations in WoS (10)

**7** Scientific paper. Arevalo, R.; Garcia, J.; Guijarro, F.; Peris, A. 2017. A dynamic trading rule based on filtered flag pattern recognition for stock market price forecasting. **Expert Systems With Applications**. Elsevier. 81, pp.177-192. ISSN 0957-4174. <https://doi.org/10.1016/j.eswa.2017.03.028> Citations in WoS (47)

**8** Scientific paper. Bes, J.; Menet, Q.; Peris, A.; Puig, Y. 2016. Recurrence properties of hypercyclic operators. **Mathematische Annalen**. Springer. 366-1-2, pp.545-572. ISSN 0025-5831. <https://doi.org/10.1007/s00208-015-1336-3> Citations in WoS (33)

**9** Scientific paper. Bernardes, N. C., Jr.; Bonilla, A.; Mueller, V.; Peris, A. 2015. Li-Yorke chaos in linear dynamics. **Ergodic Theory and Dynamical Systems**. Cambridge Univ Press. 35, pp.1723-1745. ISSN 0143-3857. <https://doi.org/10.1017/etds.2014.20> Citations in WoS (40)

**10** Scientific paper. Bernardes, N. C., Jr.; Bonilla, A.; Mueller, V.; Peris, A. 2013. Distributional chaos for linear operators. **Journal of Functional Analysis**. Elsevier. 265-9, pp.2143-2163. ISSN 0022-1236. <https://doi.org/10.1016/j.jfa.2013.06.019> Citations in WoS (57)

## **C.2. Congress** (*Up to 10 in the last 10 years*)

Only invited plenary talks in international meetings:

1-Skew-products in linear dynamics. Progress in Functional Analysis: Methods and Applications. Lecce (Italy), September 2022.

2-The specification property in linear dynamics. IWOTDS2022. El Jadida (Morocco) June, 2022.

3-Furstenberg families and linear dynamics. Frontiers of Operator Theory, CIRM, Luminy, France. December, 2021.

4-On distributional chaos for the dynamics of operators. International workshop on the interaction between operator theory and linear dynamical systems. El Jadida (Morocco), June, 2019.

5-On the chaotic dynamics of fractional difference operators. XII Congress GAFEVOL. Santiago de Chile (Chile), November, 2018.

6-A strong version of chaos for certain linear PDEs. Frontiers of Fundamental Physics. Orihuela (Spain). December, 2017.

7-Mean Li-Yorke chaotic operators. Workshop on functional analysis and operator theory. València (Spain), September, 2017.

8-Entropy for the dynamics of operators. Recent Trends in Operator and Function Theory, Lille (France), June 2015.

9-Invariant strongly mixing measures for linear operators. Topological and Combinatorial Dynamics, 10th AIMS Conference. Madrid (Spain) July, 2014.

10-Strong mixing measures for  $C_0$ -semigroups. Semigroups of operators: Theory and applications. Bedlewo (Poland), October, 2013.

## **C.3. Research projects**

1-Análisis funcional, dinámica de operadores y aplicaciones (PROMETEU/2021/070). Generalitat Valenciana. **PI: Alfred Peris Manguillot**. (Universitat Politècnica de València). 1/11/2021-31/12/2024. 450.871,97 €.

2-Cluster de Calculo Científico Rigel (EQC2021-007509-P). Agencia Estatal de Investigación. PI: Vicent Botti. (Universitat Politècnica de València). 01/06/2021-01/01/2024. 1.500.000 €. **Role: Researcher.**

3-Stratification of Atrial and Ventricular Arrhythmias based on Electrocardiographic imaging. EIT HEALTH E.V. PI: María Guillem. (Universitat Politècnica de València). 01/01/2022-31/12/2024. 444.409 €. **Role: Researcher.**

4-Ayuda Predoctoral FPU-López Martínez, Antoni. Teoría combinatoria de números, recurrencia de operadores y dinámica lineal (FPU19/04094). Ministerio de Universidades e Investigación. **PI: Alfred Peris Manguillot.** (Universitat Politècnica de València). From 31/10/2020. 89.882,65 €.

5-Dinámica de Operadores (PID2019-105011GB-I00). Agencia Estatal de Investigación. **PI: Alfred Peris Manguillot.** (Universitat Politècnica de València). 1/06/2020-31/05/2023. 55.660€.

6-Análisis funcional, teoría de operadores y aplicaciones. (PROMETEO/2017/102). Generalitat Valenciana. PI: José Bonet Solves. (Universitat Politècnica de València). 1/11/2017-31/10/2021. 343.297 €. **Role: Researcher.**

7-Dinámica de operadores (MTM2016-75963-P). MINECO. **PI: Alfred Peris Manguillot.** (Universitat Politècnica de València). 01/01/2017-31/12/2019. 70.180 €.

8-Ayuda complementaria del proyecto: hiperperiodicidad y caos de operadores. (ACOMP/2015/005). Generalitat Valenciana. **PI: Alfred Peris Manguillot.** (Universitat Politècnica de València). 1/01/2015-31/12/2015. 9.250 €.

9-Hiperperiodicidad y caos de operadores (MTM2013-47093-P). MINECO. **PI: Alfred Peris Manguillot.** (Universitat Politècnica de València). 01/01/2014-31/12/2016. 48.937,49 €.

10-Análisis funcional, teoría de operadores y aplicaciones. (PROMETEOII/2013/013). Generalitat Valenciana. PI: José Bonet Solves. (Universitat Politècnica de València). 01/01/2013-31/12/2016. 357.000 €. **Role: Researcher.**

#### **C.4. Contracts, technological or transfer merits**

1- VISOR DE INNOVACIÓN TERRITORIAL. Direcció General d'Innovació, Generalitat Valenciana. **PI: Alfred Peris Manguillot.** (Universitat Politècnica de València). 30/07/2022-15/11/2022 18.089,50€

2-GSSC-PP COVID-19 space hunting platform. Agence Spatiale Europeene ESA - ESAC. PI: Alberto González Salvador. (Universitat Politècnica de València). 21/09/2020-20/12/2020. 50.000 €. **Role: Researcher.**

3-Actualización del visor de espacios urbanos sensibles de la Comunitat Valenciana (VEUS) y propuesta de mapeificación de la pobreza energética en la Comunitat Valenciana. Instituto Valenciano de la Edificación. PI: Rafael Ramón Temes Córdovez. (Universitat Politècnica de València). 22/02/2020-22/12/2020. 14.900 €. **Role: Researcher.**