#  Curriculum Vitae

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| **PERSON RESPONSIBLE FOR THE MANAGEMENT OF THE APPLICATION (Academic coordinator)** |
| **Title**  | Professor, Doctor |  **First name** | Fernando |
| **Surname** | León-Saavedra |  *Mandatory* ⌧ Male 🞏 Female |
| **Department**  | Mathematics |
| **Position/Grade/Category** | Foreign Professor/ PhD, Doctor of Sciences /  |
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| **EDUCATIONAL BACKGROUND:** |
| 1. June 1994: Degree Mathematics. University of Seville.
2. June 1998: Phd in Mathematics. University of Seville. Under supervision prof. A. Montes-Rodríguez.
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| **WORK EXPERIENCE:** |
| 1. Febraury 1996-September 1996. Professor University of Seville.
2. September 1996 - Present Professor of Mathematics, University of Cádiz.
3. Febraury 1998. Visiting professor Banach Center (Warsow).
4. June 1998-September 1998. Visition professor University of Puerto Rico at Mayaguez.
5. September 2001. Visiting professor, Czech Academy of Science.
6. June 2004-September 2005, Visiting professor, Kent State University.
7. June 2007 - September 2007 Visiting professor, University of Cantabria.
8. March 2020-September 2020 Visiting professor, University of Cantabria.
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| **PUBLICATIONS:** |
| 1. Lacruz, Miguel ; León-Saavedra, Fernando ; Petrovic, Srdjan ; Rodríguez-Piazza, Luis . Extended eigenvalues of composition operators. J. Math. Anal. Appl. 504 (2021), no. 2, Paper No. 125427, 13 pp. 2. González, Manuel ; León-Saavedra, Fernando ; del Pilar Romero de la Rosa, María . On ℓ∞-Grothendieck subspaces. J. Math. Anal. Appl. 497 (2021), no. 1, Paper No. 124857, 5 pp. 3. Bensaid, Ikram Fatima Zohra ; León-Saavedra, Fernando ; Romero de la Rosa, María del Pilar . Cesàro means and convex-cyclic operators. Complex Anal. Oper. Theory 14 (2020), no. 1, Paper No. 6, 8 pp. 4. León-Saavedra, F. ; Moreno-Pulido, S. ; Sala-Pérez, A. Completeness of a normed space via strong p-Cesàro summability. Filomat 33 (2019), no. 10, 3013--3022. 5. León-Saavedra, Fernando ; Listán-García, M. del Carmen ; Pérez Fernández, Francisco Javier ; Romero de la Rosa, María Pilar . On statistical convergence and strong Cesàro convergence by moduli. J. Inequal. Appl. 2019, Paper No. 298, 12 pp. 6. Lacruz, Miguel ; León-Saavedra, Fernando ; Petrovic, Srdjan ; Rodríguez-Piazza, Luis . The double commutant property for composition operators. Collect. Math. 70 (2019), no. 3, 501--532. 7. León-Saavedra, Fernando ; Moreno-Pulido, Soledad ; Sala, Antonio . Orlicz-Pettis type theorems via strong p-Cesàro convergence. Numer. Funct. Anal. Optim. 40 (2019), no. 7, 798--802. 8. González, Manuel ; León-Saavedra, Fernando ; Romero-de la Rosa, Pilar . Operators admitting a closed subspace of cyclic vectors. Integral Equations Operator Theory 90 (2018), no. 3, Paper No. 28, 8 pp. 9. Lacruz, Miguel ; León-Saavedra, Fernando ; Petrovic, Srdjan ; Rodríguez-Piazza, Luis . Composition operators with a minimal commutant. Adv. Math.  **328**  (2018), 890--927. 10. Lacruz, Miguel ; León-Saavedra, Fernando ; Muñoz-Molina, Luis J. Extended eigenvalues for bilateral weighted shifts. J. Math. Anal. Appl. 444 (2016), no. 2, 1591--1602. 11. León-Saavedra, Fernando ; Piqueras-Lerena, Antonio . Super convex-cyclicity and the Volterra operator. Monatsh. Math. 177 (2015), no. 2, 301--305. 12. Lacruz, Miguel ; León-Saavedra, Fernando ; Petrovic, Srdjan ; Zabeti, Omid . Extended eigenvalues for Cesàro operators. J. Math. Anal. Appl. 429 (2015), no. 2, 623--657. 13. León-Saavedra, Fernando ; Romero-de la Rosa, Pilar . Fixed points and orbits of non-convolution operators. Fixed Point Theory Appl. 2014, 2014:221, 5 pp. 14. González, Manuel ; León-Saavedra, Fernando . Hypercyclicity for the elements of the commutant of an operator. Integral Equations Operator Theory 80 (2014), no. 2, 265--274. 15. León-Saavedra, Fernando ; Romero-de la Rosa, María del Pilar . Powers of convex-cyclic operators. Abstr. Appl. Anal. 2014, Art. ID 631894, 3 pp. 16. León-Saavedra, F. ; Piqueras-Lerena, A. ; Seoane-Sepúlveda, J. B. Orbits of Cesàro type operators. Math. Nachr. 282 (2009), no. 5, 764--773. 17. González, M. ; León-Saavedra, F. Cyclic behavior of the Cesàro operator on L2(0,∞). Proc. Amer. Math. Soc. 137 (2009), no. 6, 2049--2055. 18. León-Saavedra, F. ; Piqueras-Lerena, A. On weak positive supercyclicity. Israel J. Math.  **167**  (2008), 303--313. 19. Grosse-Erdmann, K.-G. ; León-Saavedra, F. ; Piqueras-Lerena, A. The iterates of a map with dense orbit. Acta Sci. Math. (Szeged) 74 (2008), no. 1-2, 245--257. 20. Gorkin, Pamela ; León-Saavedra, Fernando ; Mortini, Raymond . Bounded universal functions in one and several complex variables. Math. Z. 258 (2008), no. 4, 745--762. 21. León-Saavedra, F. ; Piqueras-Lerena, A. Positivity in the theory of supercyclic operators. Perspectives in operator theory, 221--232, Banach Center Publ., 75, Polish Acad. Sci. Inst. Math., Warsaw, 2007.  22. León-Saavedra, Fernando ; Müller, Vladimír . Hypercyclic sequences of operators. Studia Math. 175 (2006), no. 1, 1--18. 23. Aron, R. ; Bès, J. ; León, F. ; Peris, A. Operators with common hypercyclic subspaces. J. Operator Theory 54 (2005), no. 2, 251--260. 24. León-Saavedra, Fernando ; Müller, Vladimír . Rotations of hypercyclic and supercyclic operators. Integral Equations Operator Theory 50 (2004), no. 3, 385--391. 25. León Saavedra, F. The positive supercyclicity theorem. Extracta Math. 19 (2004), no. 1, 145--149. 26. León-Saavedra, Fernando . Notes about the hypercyclicity criterion. Math. Slovaca 53 (2003), no. 3, 313--319. 27. León-Saavedra, Fernando ; Piqueras-Lerena, Antonio . Cyclic properties of Volterra operator. Pacific J. Math. 211 (2003), no. 1, 157--162. 28. León-Saavedra, Fernando . Operators with hypercyclic Cesàro means. Studia Math. 152 (2002), no. 3, 201--215. 29. León-Saavedra, Fernando ; Montes-Rodríguez, Alfonso . Spectral theory and hypercyclic subspaces.Trans. Amer. Math. Soc. 353 (2001), no. 1, 247--267. 30. González, Manuel ; León-Saavedra, Fernando ; Montes-Rodríguez, Alfonso . Semi-Fredholm theory: hypercyclic and supercyclic subspaces. Proc. London Math. Soc. (3) 81 (2000), no. 1, 169--189. 31. León-Saavedra, Fernando . Universal functions on the unit ball and the polydisk. Function spaces (Edwardsville, IL, 1998), 233--238, Contemp. Math., 232, Amer. Math. Soc., Providence, RI, 1999.  32. León-Saavedra, Fernando ; Montes-Rodríguez, Alfonso . Linear structure of hypercyclic vectors. J. Funct. Anal. 148 (1997), no. 2, 524--545.33. Lacruz, M., León-Saavedra, F., Romero de la Rosa, M.P. Some Questions Related to Extended Eigenvalues and Extended Eigenoperators (2021) Springer Proceedings in Mathematics and Statistics, 357, pp. 345-360. 34. León-Saavedra, F., de la Rosa, M.P.R., Sala, A.,Schur lemma and uniform convergence of series through convergence methods(2020) Mathematics, 8 (10), art. no. 1744, pp. 1-11. 35. Moreno-Pulido, S., Barbieri, G., León-Saavedra, F., Pérez-Fernández, F.J., Sala-Pérez, A. Characterizations of a banach space through the strong lacunary and the lacunary statistical summabilities (2020) Mathematics, 8 (7), art. no. 1066.36. León-Saavedra, F., de la Rosa, M.P.R., Sala, A.Orlicz-Pettis theorem through summability methods(2019) Mathematics, 7 (10), art. no. 895.37. León-Saavedra, F., Pérez-Fernández, F.J., de la Rosa, M.P.R., Sala, A.Ideal convergence and completeness of a normed space (2019) Mathematics, 7 (10), art. no. 897, .  |
| **PhD STUDENTS** |
| 1. Piqueras-Lerena, Antonio; Positividad en la Teoría de operadores supercíclicos.
2. Fernández-Valles, Aurora; Subespacios invariantes comunes.
3. Sala Pérez, Antonio; Propiedades de espacios de Banach mediante métodos de sumabilidad
4. Romero-De La Rosa, Maria Del Pilar; Algunas cuestiones relacionadas con órbitas de operadores
5. Bensaid, Ikram Fatima; Intertwining relations, commutativity and orbits of linear operators.
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| **LATEST PAPERS.** |
| 1. Bensaid I. González M. Léon-Saavedra, F. Romero P. Hypercyclicity of operators that $\lambda$-commute with the differentiation operator, J. of Funct Anal. 1-26 (to appear).
2. Bensaid I. León-Saavedra F. Romero. P. Extended eigenvalues of composition operators on weighted Hardy spaces, Funct. Anal. Appl. 1-7 (to appear).
3. León-Saavedra, F. Listán. M.C. Romero P. Classical theorems thought summability methods, Springer Birkauser, 1-15 (to appear).
4. León-Saavedra, F. Listán M.C, Romero P. On statistical convergence and Strong Ces\`aro convergence by moduli for double sequences,1-17. Preprint 2021.
5. León-Saavedra, F. Romero P. On lacunary statistical convergence and lacunary strong Cesàro convergence by moduli, 1-14 Preprint 2021.
6. León-Saavedra, F. Listán. M.C. Romero P. Korovkin-type approximation results through summability methods in the Applied Science. 1-16 Preprint 2021.
7. León-Saavedra, Romero P. On frequently hypercyclicity of operator that λ-commutewith the differentiation operator, 1-7 Preprint 2021.
8. González M. León-Saavedra, Romero. P. Operators that λ-commute with the differentiationoperator : hypercyclic and supercyclic subspaces, 1-23 Preprint 2021.
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| **LAST FUNDING** |
| 1. Orbits and its interaction with some branches of Analysis. Fondo europeo de desarrollo reginal. (Tutor of emergent people). FEDER-UCA18-108415
2. Métodos analíticos en Simetrías, Teoría de Control y Operadores. (Main researcher). Miinsterio de Ciencia innvación y Universidades. PGC2018-101514-B-I00
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