

Fecha del CVA

12/03/2025

Parte A. DATOS PERSONALES

Nombre	Pablo		
Apellidos	Floría Martín		
Sexo	Hombre	Fecha de Nacimiento	
DNI/NIE/Pasaporte			
URL Web			
Dirección Email			
Open Researcher and Contributor ID (ORCID)	0000-0002-1863-4285		

A.1. Situación profesional actual

Puesto	Profesor Titular		
Fecha inicio	2021		
Organismo / Institución	Universidad Pablo de Olavide		
Departamento / Centro	Deporte e Informática / Facultad de Ciencias del Deporte		
País	España	Teléfono	(+34) 954977369
Palabras clave	Problemáticas específicas de la educación física y deportiva		

A.3. Formación académica

Grado/Master/Tesis	Universidad / País	Año
Programa Oficial de Doctorado en Ciencias de la Actividad Física y del Deporte	Universidad Autónoma de Madrid	2006
Licenciado en Ciencias de la Actividad Física y del Deporte Itinerario Actividad Física, Salud y Recreación	Universidad Europea de Madrid	2002

Parte B. RESUMEN DEL CV

He completed his undergraduate studies, earning a Bachelor's degree in 'Ciencias de la Actividad Física y Deporte' from the 'Universidad Europea de Madrid' between 1995 and 1999. Subsequently, he pursued post-graduate studies in the biomechanical laboratory of the "Centro de Alto Rendimiento y de Investigación en Ciencias del Deporte", affiliated with the "Consejo Superior de Deportes". During his predoctoral period, he participated in three R+D+i projects in sports biomechanics at two different universities, funded through competitive calls. At the "Universidad Europea de Madrid", projects supported by the "Consejo Superior de Deportes" in 2001 and 2003 focused on the biomechanical analysis of the discus throwing technique. At the "Universidad Politécnica de Valencia", he contributed to a 2002 project on the design of sports shoes funded by the "Consejo Superior de Deportes". He completed his Ph.D. with a dissertation on the biomechanical analysis of disc throw in Spanish athletes under the guidance of Dr. Amelia Ferro Sánchez of 'Universidad Autónoma de Madrid'.

From 2004 to 2007, he served as an associate lecturer in the "Expresión Musical, Plástica y Corporal" department at the "Universidad de Zaragoza". In 2007, he joined the "Universidad Pablo de Olavide" as a Lecturer in the "Deporte e Informática" department and currently holds the position of associate professor.

His research has been delved into various fundamental motor skills, such as throwing, jumping, lifting, kicking, and locomotion, all with a focus on biomechanics. He has been recognised with two 'sexenios' for the periods 2008-2013 and 2014-2019, attributed to his contribution to 42 publications in peer-reviewed scientific journals, 21 of which were published in the last 5 years. These publications have garnered a total of 325 citations, with 66 citations in 2024, excluding self-citations. Nine of these documents have been cited at least ten times, resulting in an h-index of 10. The international collaboration in his research is evident through partnerships with

institutions from 6 countries, including Ireland, Australia, and Canada. He has been the lead author (first or last author) in 58% of the documents, showcasing his leadership in document preparation.

In the realm of running biomechanical analysis, 10 articles have undergone peer review, accumulating 98 citations in total, with 16 citations in 2024, excluding self-citations. Six of these articles have been cited at least six times, giving them an h-index of 6. The knowledge derived from these studies has been disseminated to the public through the establishment of the technical-scientific service "Análisis biomecánico tridimensional del corredor" at the Universidad Pablo de Olavide, aiding recreational runners in identifying potential injury-causing motor patterns. In 2010, a patent was granted for the "Sistema de análisis cinemático en tiempo real para entrenamientos y competiciones deportivas", enabling real-time recording of speed in high-speed running with high precision.

Since 2000, he has been involved in more than 14 research, development and innovation projects through competitive national and university-level bids. He has delivered more than 40 presentations at national and international conferences and currently serves on the editorial board of the Sports Biomechanics Journal, the official scientific publication of the International Society of Biomechanics in Sports.

Parte C. LISTADO DE APORTACIONES MÁS RELEVANTES

C.1. Publicaciones más importantes en libros y revistas con "peer review" y conferencias

AC: Autor de correspondencia; (nº x / nº y): posición firma solicitante / total autores. Si aplica, indique el número de citas

- 1 **Artículo científico.** Floría, P.; Harrison, A.J.; Rojo-Álvarez, J.L.; Melgarejo-Meseguer, F.M.; Sanchez-Sixto, A.2024. Joint movement patterns differ among male recreational runners with different running style. Sports Biomechanics. Routledge. ISSN 14763141.
- 2 **Artículo científico.** Sánchez-Sixto, A.; McMahon, J.J.; Floría, P.2024. Verbal instructions affect reactive strength index modified and time-series waveforms in basketball players. Sports Biomechanics. Routledge. 23-2, pp.211-221. ISSN 14763141.
- 3 **Artículo científico.** Leal del Ojo, P.; Floría, P.; Harrison, A.J.; Gómez-Landero, L.A.2023. Effects of task difficulty on centre of pressure excursion and its inter-trial variability in acrobatic gymnastics pyramid performance. Sports Biomechanics. Routledge. 22-7, pp.890-905. ISSN 14763141.
- 4 **Artículo científico.** Leal del Ojo, Pureza; (2/4) Floría, Pablo; Walker, Cherie; Gómez-Landero, Luis Arturo. 2023. Is acrobatic pyramid performance determined by the individual balance of the gymnasts?. Sports Biomechanics. 22-2, pp.235-245. ISSN 1476-3141.
- 5 **Artículo científico.** Galiano, C.; Floría, P.; Muñoz-López, A.; Sáez de Villarreal, E.; Nuñez, F.J.2023. Stable vs. variable eccentric load. Do they induce different training and physical performance outcomes?. European Journal of Sport Science. Taylor and Francis Ltd.. 23-9, pp.1932-1939. ISSN 17461391.
- 6 **Artículo científico.** Herrero-Molleda, A.; Álvarez-Álvarez, M.J.; Floría, P.; García-López, J.2023. Training Characteristics and Competitive Demands in Women Road Cyclists: A Systematic Review. International Journal of Sports Physiology and Performance. Human Kinetics Publishers Inc.. 18-8, pp.794-804. ISSN 15550265.
- 7 **Artículo científico.** García-López, Juan; Ferrer-Roca, Ventura; (3/3) Floría, Pablo (AC). 2022. The effect of changes in saddle height on coordination and its variability during pedalling cycle. Sports Biomechanics. ISSN 1476-3141.
- 8 **Artículo científico.** Alejandro Muñoz López; Carlos Galiano; Francisco Javier Nuñez; (4/4) Pablo Floría. 2022. The flywheel device shaft shape determines force and velocity profiles in the half squat exercise. Journal of Human Kinetics. 81-1, pp.15-25. ISSN 1640-5544.

- 9 **Artículo científico.** Núñez, F.J.; Galiano, C.; Muñoz-López, A.; (4/4) Floría, P.2022. Variability in the application of eccentric force using different rotary inertia devices may influence the treatment of tendinopathy. *Journal of Sport Rehabilitation*. 31-2, pp.235-238. ISSN 10566716. <https://doi.org/10.1123/jsr.2021-0062>
- 10 **Artículo científico.** Sánchez-Sxito, A.; Harrison, A.J.; (3/3) Floría, P.2021. Effects of Plyometric vs. Combined Plyometric Training on Vertical Jump Biomechanics in Female Basketball Players. *Journal of Human Kinetics*. 77-1, pp.25-35. ISSN 16405544. <https://doi.org/10.2478/hukin-2021-0009>
- 11 **Artículo científico.** Galiano, C.; (2/4) Floría, P.; Muñoz-López, A.; Nuñez, J.2021. Lack of experience in the use the rotational inertia device is a limitation to mechanical squat performanc. *Retos*. 42, pp.12-17. ISSN 15791726. <https://doi.org/10.47197/RETOS.V42I0.85714>
- 12 **Artículo científico.** Muñoz-López, A.; Pozzo, M.; (3/3) Floría, P.2021. Real-time mechanical responses to overload and fatigue using a flywheel training device. *Journal of Biomechanics*. 121, pp.110429. ISSN 00219290. <https://doi.org/10.1016/j.jbiomech.2021.110429>
- 13 **Artículo científico.** Gómez-Landero, L.A.; Leal del Ojo, P.; Walker, C.; (4/4) Floría, P.2021. Static balance performance differs depending on the test, age and specific role played in acrobatic gymnastics. *Gait and Posture*. 90, pp.48-54. ISSN 09666362. <https://doi.org/10.1016/j.gaitpost.2021.07.023>
- 14 **Artículo científico.** Alejandro Muñoz López; (2/6) Pablo Floría; Borja Sañudo; Javier Pecci; Jorge Carmona Pérez; Marco Pozzo. 2021. The maximum flywheel load: A novel index to monitor loading intensity of flywheel devices. *Sensors*. 21-23, pp.8124. ISSN 1424-8220. <https://doi.org/10.3390/s21238124>
- 15 **Artículo científico.** Leal del Ojo, P.; (2/4) Floría, P.; Harrison, A.J.; Gómez-Landero, L.A. 2020. Effects of task difficulty on centre of pressure excursion and its inter-trial variability in acrobatic gymnastics pyramid performance. *Sports Biomechanics*. ISSN 14763141. <https://doi.org/10.1080/14763141.2020.1770322>
- 16 **Artículo científico.** Nuñez, F.J.; Galiano, C.; Muñoz-López, A.; (4/4) Floría, P.2020. Is possible an eccentric overload in a rotary inertia device? Comparison of force profile in a cylinder-shaped and a cone-shaped axis devices. *Journal of Sports Sciences*. 38-14, pp.1624-1628. ISSN 02640414. <https://doi.org/10.1080/02640414.2020.1754111>

C.2. Congresos

- 1 Luis Arturo Gómez-Landero Rodríguez; Pureza Leal del Ojo Chamorro; Pablo Floría Martín. Analysis of proactive, static and dynamic unipedal balance in young gymnasts during adolescence. 42th Conference of the International Society of Biomechanics in Sports. International Society of Biomechanics in Sports. 2024.
- 2 Floría, P.; Sánchez-Sixto, A.; Melgarejo-Meseguer, F.M.; Rojo, J.L.; Harrison, A.J.. Joint movement patterns differ among male recreational runners with different running style. 41st Conference of the International Society of Biomechanics in Sports. International Society of Biomechanics in Sports. 2023. Estados Unidos de América. Congreso.
- 3 Floría, P.; García-López, J.; Ferrer-Roca, V.. Acute effects of small changes in cycle saddle height on pedaling coordination. 40th Conference of the International Society of Biomechanics in Sports. International Society of Biomechanics in Sports. 2022. Reino Unido. Congreso.
- 4 García-González, P.; García-López, J.; Floría, P.. Influence of longitudinal shoe-cleat position on joint coordination in professional cyclists. 26th Virtual Congress of the European College of Sport Science. European College of Sport Science. 2021. Participativo - Ponencia oral (comunicación oral). Congreso.
- 5 Herrero-Molleda, A.; Floría, P.; García-López, J.. The influence of cyclists' competitive level and exercise intensity on crank torque variability during pedalling. 39th International Society of Biomechanics in Sport Conference. International Society of Biomechanics in Sports. 2021. Australia. Participativo - Póster. Congreso.

- 6 Alberto Sánchez Sixto; Pablo Floría. Las instrucciones y procedimientos determinan el rendimiento del salto vertical en jugadores de baloncesto. X Congreso Ibérico de Baloncesto. Sociedad Científica de Investigación en Baloncesto. 2020. España. Participativo - Ponencia oral (comunicación oral). Congreso.
- 7 Pureza Leal del Ojo Chamorro; Pablo Floría; Luis Arturo Gómez-Landero. Centre of pressure excursion in Acrobatic Gymnastics pyramids with different levels of difficulty. 25th Annual Congress of the European College of Sport Science. European College of Sport Science. 2020. Participativo - Póster. Congreso.
- 8 Mesa redonda. Entrenamiento del Ciclista. I Congreso Red Española de Investigación del Rendimiento Deportivo en Ciclismo y Mujer. Universitat de València. 2020. Organizativo - Comité científico y organizador. Congreso.
- 9 Ferrer-Roca, V.; Floría, P.; García-López, J.. Acute effects of small changes in crank length on torque waveform during submaximal pedalling. 38th International Society of Biomechanics in Sport. International Society of Biomechanics in Sport. 2020. Reino Unido. Participativo - Ponencia oral (comunicación oral). Congreso.

C.3. Proyectos o líneas de investigación

- 1 **Proyecto**. Desarrollo de herramientas basadas en Manifold Learning para la interpretación clínica y la monitorización de lesiones de carrera mediante sistemas en tiempo real. Francisco Manuel Melgarejo Meseguer. (Universidad Rey Juan Carlos). 01/11/2024-01/11/2027. 80.651,2 €.
- 2 **Proyecto**. Aplicación de la ciencias de datos para mejorar la utilidad del análisis biomecánica de la carrera. Universidad Pablo de Olavide. Floría, P.(Universidad Pablo de Olavide). 12/12/2020-31/12/2021. 7.000 €. Investigador principal.
- 3 **Contrato**. Análisis del efecto del dispositivo metálico SUECOS sobre la capacidad de equilibrio estático y la estabilidad en personas adultas SUECOS FOOTWEAR, S.L.U.. Pablo Floría Martín. 14/04/2022-14/06/2022. 2.500 €.
- 4 **Contrato**. Análisis del efecto del dispositivo metálico SUECOS sobre la capacidad de producir fuerza, el mantenimiento del equilibrio estático y la estabilidad tras una tarea dinámico SUECOS FOOTWEAR, S.L.U.. Pablo Floría Martín. 27/01/2020-27/03/2020. 2.500 €.