

CURRICULUM VITAE

Part A. PERSONAL INFORMATION		CV date	19/01/2021
First and Family name	Jaisalmer de Frutos Lucas		
Researcher codes	WoS Researcher ID	G-9806-2016	
	SCOPUS Author ID	57200798266	
	ORCID	0000-0003-2970-4338	

A.1. Current position

University/Institution	Universidad Nebrija		
Department	Departamento de Psicología / Facultad de Ciencias Sociales		
Address and Country	Campus de Princesa C/ Santa Cruz de Marcenado, 27 C/ Joaquín María López, 62 28015 Madrid, Spain		
Phone number	91 452 11 00	E-mail	jfrutos@nebrija.es
Current position	Associate Professor	from	2020
Key words	Psychology, Neuroscience		

A.2. Academic education (Degrees, institutions, dates)

Bachelor/Master/PhD	University	Year
Programa de Liderazgo Público y Social (ongoing)	Universidad Internacional de la Rioja	2021
Título de Experto en Metodología Docente Universitaria (ongoing)	Universidad Autónoma de Madrid	2021
Doctorado en Psicología Clínica y de la Salud	Universidad Autónoma de Madrid	2020
PhD in Medical and Health Sciences	Edith Cowan University	2020
Master's in Neuroscience	Universidad Autónoma de Madrid	2016
Diploma de Posgrado en Genética Médica	Universitat de València	2016
Licenciatura en Psicología (9.47/10, first in class)	Universidad Autónoma de Madrid	2014

A.3. JCR articles, h Index, thesis supervised...

- **11 documents** indexed on Scopus (9 scientific articles, 6 in the first quartile*, 6 in the first decile*) with **56 citations, h-index of 3**.
2 recently published/accepted articles not yet indexed (2021, both estimated first quartile, first decile).
- **5 indexed papers** as first or co-first author (5/5 in the first quartile* and first decile* in Scopus).
**2019 indicators have been used to estimate data from 2020 publications.*
- **21 papers** indexed on Google Scholar, with **100 citations** and a **h-index of 5**.
- **Supervisor** of 2 research-oriented Bachelor's Theses and 7 research-oriented practicum in Psychology (Universidad Camilo José Cela, Saint Louis University and Universidad Complutense de Madrid).
- **Reviewer** in: Frontiers in Human Neuroscience, Frontiers in Aging Neuroscience, Alzheimer's & Dementia, Maturitas and Sport Sciences for Health among others.

Part B. CV SUMMARY

I have always been interested in the intersection between social and biological sciences, so I hold degrees in Psychology, Neuroscience and Medical Genetics. In 2015, I was honored to receive a **PhD Scholarship by La Caixa Foundation** (3.6% success rate) to start my doctoral studies at Universidad Autónoma de Madrid (UAM). I delved into the study of the brain benefits of physical activity in older adults at genetic risk for Alzheimer's disease. My interest in genetics led me to contact expert in Alzheimer's genetics Dr. Laws (Edith Cowan University, ECU). With his support, in 2016 I obtained the prestigious **Endeavor Research Fellowship** to visit ECU for the first time in 2017/2018. Dr Laws agreed to formalize our collaboration in a joint PhD agreement UAM-ECU and I travelled back to ECU in 2019/2020, supported by an ECU scholarship and a **grant by the Australian Embassy in Madrid**. Finally, last year I also joined global experts in the **executive committee of the Non-Pharmacological Interventions** section of the International Society to Advance Alzheimer's Research and Treatment.

As a result of these collaborative opportunities, I have published **11 JCR articles (5 as first author)**, 1 proceedings and **4 book chapters** (Scopus Citations: 56). Moreover, I have had the chance to share and discuss my results with my peers through **nearly 40 contributions to scientific meetings**. Successful funding applications enabled my participation in such conferences. Also, from the beginning of my scientific career I was **passionate about and committed to science communication**. I have actively participated in and organized multiple activities and contests. For example, I recently was selected as the Audience Vote for Western Australia in Famelab (British Council), which offered me the opportunity to receive one year of professional mentoring in science communication and to become a mentor for 9th grade students. Furthermore, I am currently working on the development of a brain-related virtual escape room. Beside my scientific background, for the past 10 years I have volunteered for multiple NGOs in Spain (operating in Madagascar, Cambodia, Bolivia and Paraguay), Indonesia, Estonia, Germany and the USA, where I have had the opportunity to develop my **communication, management, event organization and team leading skills** from a very young age.

Part C. RELEVANT MERITS

C.1. Publications (including books)

(#x/#y): position of applicant / total of authors. Bold font marks first authorship.

- 1 **Accepted manuscript**. Babiloni C; Arakaki X; Azami H; et al; Guntekin B (10/60) 2021. Measures of Resting State EEG Rhythms for Clinical Trials in Alzheimer's Disease Patients: Recommendations of an Expert Panel. *Alzheimer's & Dementia* (in press). ISSN 1552-5279.
- 2 **Scientific paper**. Ramírez-Toraño F; Bruña R; de Frutos-Lucas J; et al; Maestú F (3/11) 2021. Functional Connectivity Hypersynchronization in Relatives of Alzheimer's Disease Patients: An Early E/I Balance Dysfunction? *Cerebral Cortex*. 31, pp. 1201-1210. ISSN 1047-3211.
- 3 **Scientific paper**. de Frutos-Lucas J; Frost N; Erickson KI; et al; Brown M (1/7) 2020. Does APOE genotype moderate the relationship between physical activity, brain health and dementia risk? A systematic review. *Ageing Research Reviews*. Dec;64:101173. ISSN 1568-1637.
- 4 **Scientific paper**. de Frutos-Lucas J; Cuesta P; Ramírez-Toraño F; et al; Maestú F (1/19) 2020. Age and APOE genotype affect the relationship between objectively measured physical activity and power in the alpha band, a marker of brain disease. *Alzheimer's Research & Therapy*. 12, p. 113. ISSN 1366-7289.
- 5 **Scientific paper**. de Frutos-Lucas J; Cuesta P; López-Sanz D; et al; Maestú F (1/18) 2020. The relationship between physical activity, apolipoprotein E ϵ 4 carriage, and brain health. *Alzheimer's Research & Therapy*. 12, pp. 48-48. ISSN 1366-7289.
- 6 **Scientific paper**. de Frutos-Lucas J; López-Sanz D; Cuesta P; Bruña R; et al; Maestú F (1/11) 2019. Enhancement of posterior brain functional networks in bilingual older adults. *Bilingualism*. 23, pp. 387-400. ISSN 13667289.
- 7 **Scientific paper**. Rodríguez-Rojo IC; Cuesta P; López ME; et al; Maestú F (4/13) 2018. BDNF Val66Met polymorphism and gamma band disruption in resting state brain functional connectivity: A magnetoencephalography study in cognitively intact older females. *Frontiers in Neuroscience*. 12, pp. 684. ISSN 1662-453X.
- 8 **Scientific paper**. López-Higes R; Prados JM; Rodríguez-Rojo IC; et al; Delgado ML (5/9) 2018. Factors explaining language performance after training in elders with and without subjective cognitive decline. *Frontiers in Aging Neuroscience*. 10 – 264. ISSN 1663-4365.
- 9 **Scientific paper**. de Frutos-Lucas J; López-Sanz D; Zuluaga P; et al; Fernández A. (1/12) 2018. Physical activity effects on the individual alpha peak frequency of older adults with and without genetic risk factors for Alzheimer's Disease: A MEG study. *Clinical Neurophysiology*. 129-9, pp. 1981-1989. ISSN: 1388- 2457.
- 10 **Scientific paper**. López-Higes R; Martín-Aragoneses MT; Rubio-Valdehita S; et al; López-Sanz D (7/8) 2018. Efficacy of cognitive training in older adults with and without subjective cognitive decline is associated with inhibition efficiency and working memory span, not with cognitive reserve. *Frontiers in Aging Neuroscience*. 10 – 264. ISSN 1663-4365.
- 11 **Scientific paper**. Anderson JAE; Grundy JG, de Frutos-Lucas J; et al; Bialystok E (3/6) 2017. Effects of bilingualism on white matter integrity in older adults. *Neuroimage*. 167, pp. 143 – 150. ISSN 1053-8119.
- 12 **Scientific proceedings**. de Frutos-Lucas J; Brown BM; Porter T.; et al; Laws SM (1/15) 2019. Fighting inactivity to prevent cognitive decline: The role of dopamine in modulating physical activity levels in older adults. 2nd HBP Student Conference – Transdisciplinary Research Linking

C.2. Research projects and grants

- 1 RTI2018-098762-B-C31, Estudio del conectoma anatómico-funcional de familiares de enfermos de Alzheimer: Una propuesta de intervención temprana cognitiva y de estilo de vida (RTI2018-098762-B-C31). Programa estatal de investigación, desarrollo e innovación orientada a los retos de la sociedad. PI: Fernando Maestú Unturbe (Universidad Complutense de Madrid). 01/01/2019-31/01/2022. 157.300 € Team Member.
- 2 45567, Tailoring exercise to maintain cognitive health: Is benefit moderated by genetics and gender? UKBioBank. PI: Belinda Brown (Murdoch University, Australia). 03/07/2019-03/01/2021. Research Team.
- 3 IAI-011-2018-UNSA. Desarrollo de perfiles neuropsicológicos y neurocognitivos en sujetos con alto riesgo de desarrollo de demencia - Población Arequipeña. Proyectos de Investigación Básica y Aplicada – UNAS. PI: Roxana Yolanda Castillo Acobo (Universidad Nacional de San Agustín de Arequipa, Peru). 12/06/2018 - 12/12/2019. 65.200 € Researcher.
- 4 PSI2015-68793-C3-1-R, Características cognitivas y neurofisiológicas de personas con alto riesgo para el desarrollo de demencia: una aproximación multidimensional (PSI2015-68793-C3-1-R). Ministerio de Economía y Competitividad. Programa estatal de investigación, desarrollo e innovación orientada a los retos de la sociedad. PI: Fernando Maestú Unturbe (Universidad Complutense de Madrid). 01/01/2016-31/12/2018. 181.500 € Team member.
- 5 Australian Imaging, Biomarker & Lifestyle Flagship Study of Ageing (AIBL). Science and Industry Endowment Fund. Ongoing since 2006 (<https://aibl.csiro.au>). Current Study Lead: David Ames (Melbourne University, Australia). Student granted access.

C.3. Contracts (N.A)

C.4. Patents (N.A).

C.5. Institutional responsibilities

- 1 Executive Committee Member (since 2020). Non-Pharmacological Interventions Professional Interest Area, International Association to Advance Alzheimer's disease Research and Treatment.
- 2 Science Communications Mentor (2020). Famelab Australia, British Council.
- 3 Student Representative in Teaching Commission (2017-2019). School of Psychology, Universidad Autónoma de Madrid.
- 4 Student Representative in Research Commission (2011-2013). School of Psychology, Universidad Autónoma de Madrid.

C.6. Memberships to scientific and professional societies

- 1 Member of the "Federation of European Neuroscience Societies" since 2019.
- 2 Member of the "Sociedad Española de Neurociencia" since 2019.
- 3 Member of "La Facultad Invisible" since 2019.
- 4 Member of "Global Alumni Australia", since 2018.
- 5 Member of the "International Society to Advance Alzheimer's Research and Treatment" since 2017.
- 6 Member of the "Australasian Neuroscience Society" since 2017.
- 7 Member of the "Sociedad Española de Psicofisiología y Neurociencia Cognitiva y Afectiva" since 2017.
- 8 Member of the "Asociación de Becarios La Caixa", since 2015.
- 9 Member of the "Young Iberoamerican Leaders Association", since 2015.

C.7. Scientific awards

Research related awards and scholarships

- 1 School of Medical and Health Sciences PhD Scholarship (ECU, 2019).
- 2 Alumni Grant Spanish Scheme (Australian Embassy in Madrid, 2018).
- 3 Student Volunteer full scholarship (Alzheimer's Association International Conference, 2018).
- 4 Endeavor Research Fellowship (Australian Government, 2016).
- 5 International Research Visits Fellowships (UAM, 2016).
- 6 PhD Studies Scholarship (La Caixa Foundation, 2015).

7 Collaboration in Research Scholarship (Spanish Ministry of Education, 2013).

Academic Performance Awards

8 Alumni Grant Spanish Scheme (Australian Embassy in Madrid, 2018).

9 National Award for Excellence in Academic Performance (Spanish Ministry of Science, 2019).

10 Award for Excellence in Academic Performance (Autonomous Region of Madrid, 2013).

11 Master Studies Scholarship (UAM, 2014).

12 Undergraduate exchange full scholarship (Tufts University, 2012).

13 Award for Excellence in Academic Performance (Autonomous Region of Madrid, 2012).

14 Award for Excellence in Academic Performance (Autonomous Region of Madrid, 2011).

15 Award for Excellence in Academic Performance (Autonomous Region of Madrid, 2010).

16 Young Iberoamerican Leaders (Fundación Carolina, 2015, 50 students from 21 countries).

Science Communication and Dissemination Awards

17 Western Australia Audience Choice (FameLab, British Council, 2020).

18 Best Oral Communication (PhD Research Symposium in Health Sciences and Biomedicine, UAM, 2018).

19 3 Minute Thesis (UAM, 2018).

20 Fully Focused Photography runner-up (Scope Global Australia, 2017).

Other Awards

21 People Accelerator Programme (Celera, 2018).

22 Excellence in Teaching (Tufts University, 2013).

C.7. National and International Research Visits:

International joint PhD programme at Edith Cowan University, Australia.

1 11/11/2019-10/08/2020. School of Medical and Health Sciences Scholarship. Supervisor: Simon Laws (h-index: 31).

2 07/08/2017-22/01/2018. Endeavor Scholarship. Supervisor: Simon Laws (h-index: 31).

Other Research Stays

3 17/09/2016-15/12/2016: York University (Canada). Supervisor: Ellen Bialystok (h-index: 68).

4 8/01/2016-29/07/2016: Instituto de Salud Carlos III (Spain). Supervisor: Miguel Calero (h-index: 36).