

MARIA A. SANS-FUENTES

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I. PROFESSIONAL DEGREES

MS: *Statistics. GIDP program: University of Arizona (2020)*
Graduate Certificate: *Statistics. GIDP program: University of Arizona (2018)*
European Doctor: *Biology: University of Barcelona (2005)*
PhD: *Biology: University of Barcelona (Dec 2004)*
MS: *Pharmaceutical Sciences (specialization in Physiology): University of Barcelona (Dec 2004)*
BS: *Biology: University of Barcelona (Mar 1996)*

II. WORK EXPERIENCE

Consulting:

STATISTICIAN (January 2022 to present): Statistics Consulting Laboratory. BIO5 Institute. University of Arizona

Graduate Teaching:

GRADUATE ASSISTANT (Jan 2019 to May 2019): *Department of Health Promotion Sciences, University of Arizona, Tucson, USA. Assisted to the course "Advanced Research Methods in Health Promotion Sciences II (HPS 620B) (0.25 FTE).*

Undergraduate Teaching:

TEACHING ASSISTANT (2000 to 2001): Department of Animal Biology, University of Barcelona, Barcelona, Spain. Taught courses in Biology (60 hours: 2000-2001)

TEACHING ASSISTANT (1999 to 2000): Department of Animal Biology, University of Barcelona, Barcelona, Spain. Taught courses in Biology (60 hours: 1999-2000)

TEACHING ASSISTANT (1998 to 1999): Department of Animal Biology, University of Barcelona, Barcelona, Spain. Taught courses in Zoology (30 hours: 1998-1999)

TEACHING ASSISTANT (1998 to 1999): Department of Animal Biology, University of Barcelona, Barcelona, Spain. Taught courses in Biology (30h: 1998-1999)

Scientific Research:

POSTDOCTORAL RESEARCH ASSOCIATE (04/01/2006 to 02/28/2011): Department of Ecology and Evolutionary Biology, *The University of Arizona, Tucson, AZ, USA: Investigated genetic basis for reproductive isolation between species using DNA amplification techniques (PCR) and sequence alignment. Conducted statistical data analyses and presented results at conferences and in scientific journals.*

Administrative:

EUROPEAN PROJECT MANAGER (1/1/2014 to 2/28/2016): *Biosphere 2, College of Science, The University of Arizona. Project name "Sustainable Water Action" (SWAN: FP7-INCOLAB-2011; <http://swanproject.arizona.edu>)*

III. PROFESSIONAL AWARDS & FELLOWSHIPS

2021 Award winner (Honorable Mention): 2021 American Statistical Association. Section on Risk Analysis Student Paper Competition. Paper title: *Benchmark dose risk analysis with mixed-factor quantal data in environmental risk assessment.* Authors: Sans-Fuentes, M.A. and Piegorsch, W.W.

- 2007 Travel Award by Ministry of Education and Science (MEC) and the Fulbright Foundation to visit the Department of Genetics, University of Barcelona (Jul 2007)
- 2006 Post-Doctoral Study Award, Fulbright Foundation. To conduct research at the Department of Ecology and Evolutionary Biology, The University of Arizona, Tucson AZ, USA (2006 to 2011)
- 2005 European Doctoral Program Quality Recognition Award, University of Barcelona

IV. PROFESSIONAL PUBLICATIONS:

Books (total=1):

Water Bankruptcy In The Land Of Plenty: Steps towards a transatlantic and transdisciplinary assessment of water scarcity in Southern Arizona (2016); Edited by Poupeau F, Gupta HV, A Serrat-Capdevilla, S Harris, **MA Sans-Fuentes** & L Hayde, CRC Press

Journal Papers (total=20; only listed since 2010):

- [20] **Sans-Fuentes MA**, Doubeni C, Tilburt J, Oesterle S, Sabo S, Parthasarathy S on behalf of Arizona CEAL Consortium (2023). Temporal Changes In Vaccine-Specific Willingness Across Races-Ethnicities Following Serious Adverse Event Reports. *American Journal of Public Health*. In Press
- [19] Corenblum M J, McRobbie-Johnson A, Carruth E, Bernard K , Luo M , Mandarino LJ, Peterson S, **Sans-Fuentes MA** , Billheimer D , Maley T, Eggers ED , Madhavan L (2023). Parallel neurodegenerative phenotypes in sporadic Parkinson's disease fibroblasts and midbrain dopamine neurons. *Progress in Neurobiology* 229:102501.
- [18] Gupta HV, Ehsani MR, Roy T, **Sans-Fuentes MA**, Ehret U, Behrangi A (2021). Computing Accurate Probabilistic Estimates of One-D Entropy from Equiprobable Random Samples. *Entropy (Basel)* 23(6):740.
- [17] **Sans-Fuentes MA**, Piegorsch WW (2021). Benchmark dose risk analysis with mixed-factor quantal data in environmental risk assessment. *Environmetrics* 32(5):e2677.
- [16] Bailey O, Combs D, **Sans-Fuentes MA**, Havens CM, Grandner MA, Poongkunran C, Patel S, Berryhill S, Provencio N, Quan SF, Parthasarathy S (2019). *Delayed Sleep Time in African Americans and Depression in a Community-Based Population*. *Journal of Clinical Sleep Medicine* 15(6):857-864.
- [15] Sánchez-Chardi A, García-Pando M, Pujol-Buxó E, **Sans-Fuentes MA**, López-Fuster MJ, and F Muñoz-Muñoz (2018). *Insularity induces changes on body and mandible morphology in a Mediterranean population of the greater white-toothed shrew Crocidura russula*, *Contributions to Zoology* 87: 234-244
- [14] Ventura J, G Bagaria, **MA Sans-Fuentes** and R Pérez-Hernaández (2014), *Common distribution patterns of the marsupials related to physiographical Diversity in Venezuela*, *PLOS ONE* 9: e96714.
- [13] Muñoz-Muñoz F, **Sans-Fuentes MA**, López-Fuster MJ, and Ventura J (2011), Evolutionary modularity of the mouse mandible: dissecting the effect of chromosomal reorganizations and isolation by distance in a Robertsonian system of *Mus musculus domesticus*. *Journal of Evolutionary Biology* 24: 1763-1776.
- [12] **Sans-Fuentes MA**, J García-Valero, J Ventura, and M López-Fuster (2010), *Spermatogenesis in house mouse in a Robertsonian polymorphism zone*. *Reproduction*, 140: 569-581
- [11] Gündüz I, CL Pollock, MD Giménez, DG Förster, TA White, **MA Sans-Fuentes**, HC Hauffe, J Ventura, MJ López-Fuster and JB Searle (2010), *Staggered Chromosomal Hybrid Zones in the House Mouse: Relevance to Reticulate Evolution and Speciation*. *Genes*, 1(2): 193-209
- [10] **Sans-Fuentes MA**, A Díez-Noguera and T Cambras (2010), *Light responses of the circadian system in leptin-deficient mice*, *Physiology & Behavior*, 99: 487-494

Conference Abstracts (total=4- only listed the most recent):

- [4] Bailey O, **Sans-Fuentes M**, Havens C, Combs D, Grandner MA, Poongkunran C, Patel SN, Berryhill S, Provencio N, Quan SF and S Parthasarathy (2018), *Delayed Sleep Time In African Americans And Depression In A Community-Based Population*, *Sleep*, 41 (Suppl 1): 0652

Professional Reports (3):

- [3] **Sans-Fuentes MA**, Poupeau F, Harris S and Rambotti, S (2015). Stakeholders Committee recommendations for building the feasibility study 2 (SWAN project Deliverable 5.4)
- [2] **Sans-Fuentes MA** and Poupeau F (2014). First Consortium Report: "An agenda for a Sustainable Water Center" (SWAN project Deliverable 6.3)
- [1] Poupeau F and **Sans-Fuentes MA** (2014). Stakeholders Committee recommendation for building the Feasibility Study (SWAN project Deliverable 5.2)

V. PROFESSIONAL PRESENTATIONS:

Contributed (total=41, only listed since 2015):

- 2021 Joint Statistical Meetings – Virtual Conference (August 8-12). Oral Communication: Benchmark Dose Risk Analysis with Mixed-Factor Quantal Data in Environmental Risk Assessment. **Sans-Fuentes MA** and WW Piegorsch
- 2021 ISI World Statistics Congress - Virtual Conference (July 11-16). Oral Communication: Benchmark Dose Risk Analysis with Mixed-Factor Quantal Data in Environmental Risk Assessment. **MA Sans-Fuentes** and **Walter W. Piegorsch**
- 2021 Women in Data Science Tucson – Virtual event (April, 21). Oral Communication (Data Blitz): Benchmark Dose Risk Analysis with Mixed-Factor Quantal Data in Environmental Risk Assessment. **MA Sans-Fuentes**
- 2019 Women in Data Science (Tucson, Arizona, April 5). Oral Communication (Data Blitz): Mixed-Factor Benchmark Risk Assessment. **MA Sans-Fuentes**
- 2016 EU-USA Sustainable Water Action Network (SWAN) International Conference on *Open Knowledge: Bridging Perspectives to Address Water Challenges*, (Tucson, Arizona, Feb 16-17) Poster: The Role of Biodiversity in the Hydrological Cycle. The Case of the American Southwest. **MA Sans-Fuentes** and T Meixner
- 2016 EU-USA Sustainable Water Action Network (SWAN) International Conference on *Open Knowledge: Bridging Perspectives to Address Water Challenges*, (Tucson, Arizona, Feb 16-17) Poster: *Water Bankruptcy in the Land of Plenty; Steps Towards a Transatlantic and Transdisciplinary Assessment of Water Scarcity in Southern Arizona*. Poupeau F, H Gupta, A Serrat-Capdevilla, **MA Sans-Fuentes**, S Harris and LG Hayde
- 2015 8th Ecosystem Services Partnership (ESP) workshop on ‘*Ecosystem Services for Nature, People and Prosperity*’, Stellenbosch, South Africa (Nov 9-13) Poster: *Water Bankruptcy in the Land of Plenty; Steps Towards a Transatlantic and Transdisciplinary Assessment of Water Scarcity in Southern Arizona*. Boyanova K, Poupeau F, H Gupta, A Serrat-Capdevilla, and **MA Sans-Fuentes**