

SALGADO, Paulo

Agronomy and livestock research scientist

Tropical and Mediterranean Animal Production Systems unit, Agricultural
Research for Development (CIRAD)

Dakar, Senegal

paulo.salgado@cirad.fr

Education

- Dec. 18 *Habilitation to conduct researches, Crop-Livestock integration, Université de la Réunion*
- Sept. 98 – *Ph.D., Animal nutrition and digestive physiology, Ecole Nationale Supérieure*
Dec. 01 *Agronomique de Rennes (ENSAR) and Institut National de Recherche Agronomique (INRA), France ; Universidade de Évora and Instituto Superior de Agronomia de Lisboa, Portugal*
- Sept. 97 – *M.S., Biology and Animal Production, ENSAR and Université de Rennes I, France*
July 98
- Sept. 90 – *Degree in Zootechnic Engineering, Universidade de Évora, Portugal*
July 95

Professional experiences

- Sept. 19 – *Research scientist, Coordination of research projects in carbon sequestration*
current *and greenhouse gas emissions in agro-sylvo-pastoral ecosystems in the Sahelian region, CIRAD, Senegal*
- Jan. 14 – *Research scientist, Coordination of research projects & platforms in crop-*
Aug. 19 *livestock integration for sustainable production intensification in Indian Ocean region, CIRAD, Madagascar and Indian Ocean region*
- Dec. 09 – *Research scientist, Research in crop-livestock integration for sustainable*
Dec. 13 *production intensification in Indian Ocean region, CIRAD, Reunion Island and Madagascar*
- May 08 – *Research scientist, Modelling crop-livestock systems, CIRAD, France and The*
Nov. 09 *Netherlands*
- June 02 – *Research scientist, Implementation of temperate fodder species to solve*
April 08 *winter forage scarcity in Northern Vietnam, CIRAD, Vietnam*
- Sept. 98 – *Ph.D. thesis, New knowledge about digestion of dietary legume proteins and*
Dec. 01 *immune responses of weaned piglets and growing pigs, France and Portugal*
- Sept. 97 – *M.Sc. thesis, Immunochemical characterization of soybean glycinin fragments*
July 98 *in ileal digesta of preruminant calves, France*
- Jan. 97 – *Research activity, Development of protein purification techniques applied to*
Aug. 97 *legume grains, INRA, France*
- Sept. 95 – *Agronomic and zootechnic engineer, Herd management and breeding practices*
Dec. 96 *of dairy sheep; Implementation of seed business strategy in Spain, FERTIPRADO, Portugal*

Expertise

Research scientist in animal nutrition and forage production. Nowadays, based in Senegal but with professional experience in Europe, South-Est Asian countries and Indian Ocean region. Achievements include research about animal nutrition, forage management and crop-livestock integration for sustainable production intensification.

Selected projects funded and managed (max 5):

- Jan 20 – Dec. 23 *Carbon Sequestration and greenhouse gas emissions in (agro) Sylvopastoral Ecosystems in the sahelian CILSS States (CASSECS), European Union, 5 000 k€, ISRA, CSE, UCAD (Senegal), INERA, CIRDES (Burkina-Faso), CILSS (Niger), CIRAD, IRD (France), University of Copenhagen (Denmark), Université catholique de Louvain (Belgium)*
- June 17 – Dec. 19 *Soil ECological function REstoration to enhance agrosystem services in rainfed rice cropping systems in agroecological transition (SECuRE), Agropolis Fondation, 237 k€, IRD, CIRAD, INRA, MSA, FOFIFA, Université d'Antananarivo (Madagascar), IIAT (Kenya)*
- Sep. 15 – Aug. 18 *System approach for the TRAnsition to bio-DIVersified agroecosystems (STRADIV), Agropolis Fondation, 1 300 k€, CIRAD, ICRAF, AfricaRice, CIAT, CATIE, CIRDES, WUR*
- July 15 – Dec. 19 *Emerging Crop-Livestock Production Systems adapted to a changing Environment (ECLIPSE), European Union, French Government, Reunion Island Region, CIRAD, 1 622 k€, CIRAD and 30 research and educational Institutions in seven Indian ocean countries*
- Jan. 13 – Dec. 15 *Recyclage des biomasses végétales et animales dans les systèmes d'agriculture élevage (BIOVA), Africa Union, CIRAD, 974 k€, CIRAD, IRD, FIFAMANOR, FOFIFA, LRI, Université d'Antananarivo (Madagascar), UEM and IIAM (Mozambique), CRAW (Belgium), ARP (Reunion Island)*

Number of publications in international journals: 34. *Impact factor journals:* 23; *Peer-reviewed journals:* 11

Hirsch index (Web of Science): 15. *Top h cited research: Comparative effects of different legume protein sources in weaned piglets: Nutrient digestibility, intestinal morphology and digestive enzymes (112 citations); Whole-farm nitrogen cycling and intensification of crop-livestock systems in the highlands of Madagascar: An application of network analysis (64 citations); Trade-offs between biomass use and soil cover. The case of rice-based cropping systems in the Lake Alaotra region of Madagascar (52 citations) and Immunochemical Studies on Gastric and Intestinal Digestion of Soybean Glycinin and B-Conglycinin in vivo (42 citations).*

Significant publications (max 10) in the last 5 years:

Andriarimalala J.H., Dubeux J.C., DiLorenzo N., Jaramillo D.M., Rakotozandriny J.N., Salgado P. **2020**. Use of n-alkanes to estimate feed intake in ruminants: a meta-analysis. **Journal of Animal Science**, 98 (10), <https://doi.org/10.1093/jas/skaa304>

Andriarimalala J.H., Kpomasse C.C., Salgado P., Ralisoa N., Durai J. **2019**. Nutritional potential of bamboo leaves for feeding dairy cattle, **Pesquisa Agropecuária Tropical**, Goiânia, v. 49, e54370, 2019.

Bastianelli D., Bonnal L., Barre P., Nabeneza S., Salgado P., Andueza D. **2018**. La spectrométrie dans le proche infrarouge pour la caractérisation des ressources alimentaires, **INRA Productions Animales**, 31 (3): 237-254. DOI: 10.20870/productions-animales.2018.31.2.2330

Rasolofo L., Dusserre J., Salgado P., Razafimbelo T., Naudin K. **2018**. Impacts des innovations agro-écologiques sur le rendement en grain des cultures pluviales. **Akon'ny Ala**, Ecole Supérieure des Sciences Agronomiques, 34: 13-26.

Razafinarivo Tsirinirina Donnah, RahetlahVolatsara Baholy, Rakotozandriny Jean de Neupomuscène, Salgado P., Degenne P., **2017**. Développement d'un outil cartographique pour la gestion des ressources pastorales par une approche combinée de télédétection et de modélisation, **Livestock Research for Rural Development** 29(11), <http://www.lrrd.org/lrrd29/11/raza29204.html>

Alexandre C., Tillard E, Salgado P., Lajoie G. **2017**. Validation of an empirical model, LAI~VI, to force a grass growth model on Reunion Island, France. Photo interpretation. **European Journal of Applied Remote Sensing**.

Razafinarivo Tsirinirina Donnah, RahetlahVolatsara Baholy, Rakotozandriny Jean de Neupomuscène, Salgado P., Rakotomanana Olga Rachel, Artus H., le Mezo L. **2016**. Gestion de pâturages par utilisation combinée d'un modèle de prédiction du rendement fourrager et de la télédétection : cas de la station Kianjasoa, **Bulletin de l'Académie malgache**, XCVI/1: 115-122.

Penot E., Duba G., Salgado P., Dugué P. **2016**. Capacités d'adaptation des exploitations laitières à Madagascar : Impacts de la crise de 2009 sur les élevages laitiers des Hautes Terres de la province du Vakinankaratra. **Revue Élevage et Médecine Vétérinaire Tropicale**, 69(1): 19-31.

Fanjaniaina M.L., Ramahandry F., Larvy Delariviere J., Razafimanantsoa M.P., Salgado P., Tillard E., Rabeharisoa L., Becquer T. **2015** Transfert de fertilité et durabilité des systèmes de production : application à la culture du riz. **Bulletin de l'Académie Nationale Malgache**, 95(1): 163-168.

Maass B.L., Midega C.A.O., Mutimura M., Rahetlah V.B., Salgado P., Kabirizi J.M., Khan Z.R., Ghimire S.R., Rao I.M. **2015**. Homecoming of Brachiaria: Improved Hybrids Prove Useful for African Animal Agriculture. **East African Agricultural and Forestry Journal**, 81(1).