

CURRICULUM VITAE

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Associate Professor

Department of Agronomy &
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1. Academic Proficiency

Degree/PDF	Year	University
B.Sc. (Agriculture)	1993-1998	Tamil Nadu Agricultural University, Coimbatore
M.Sc.(Agronomy)	1999-2000	Tamil Nadu Agricultural University, Coimbatore
Ph.D (Agronomy) (Specialization in weed science)	2001-2004	University of Agricultural Sciences, Bangalore
PDF	April.2018- Oct .2018	University of Queensland, Brisbane, Australia

2. Professional Experience

Experience	University/ College	Period	Responsibilities	City
Assistant Professor	Adhiparasakthi Agrl. College	2004-2006	Teaching	TN, India
Assistant Professor	PAJANCOA&RI (Govt. of Puducherry)	17 Aug 2006- 16 Aug 2018	Teaching, Research & Extension	Karaikal, Puducherry UT
Associate Professor	-do-	17 Aug 2018- Till date	-do-	-do-

3. Awards & Recognitions

Year	Awards/recognition received	City/ Country
2000	Coromandel Indag Products Pvt. Limited Award for best thesis in herbicide science in Agronomy. Hexamer Agricultural Research foundation Award for best thesis in chemical weed control in Agronomy	TNAU, India TNAU, India
2007	Young scientist Award from Asian Pacific Weed Science Society. Travel award- Dept. of Science &Technology (DSTE), Puducherry to participate in the Asian Pacific weed science society conference at Colombo, Sri Lanka	Colombo, SriLanka Puducherry, India

2010	Travel grant- CSIR, New Delhi - To attend the First International Parthenium conference held at Nairobi, Kenya. Travel grant- International Organization for Biological Control (IOBC)- To attend the First International Parthenium conference held at Nairobi, Kenya.	Nairobi, Kenya
2011	Young and deserving scientist Award from Asian Pacific Weed Science Society Travel grant- DSTE, Puducherry travel grants to participate in the Asian Pacific weed science society conference at Cairns,Australia.	Cairns,Australia
2017	Travel grant- European Weed Research Society (EWRS) to participate in the Asian Pacific weed science society conference at Cairns,Australia.	Chios, Greece
2018	Endeavour Post-Doctoral fellowship	Department of Education & Training, Australia
2018	Endeavour “Fully Focussed ”video competition winner award	Department of Education & Training, Australia
2018	Travel grant- Department of Education& Training, Australia & The Weed Society of New South Wales to participate in the 21st Australasian Weed Conference at Sydney, Australia.	Sydney, Australia
2019	Best Poster award	PAJANCOA&RI, Karaikal

4. Publications from reviewed journals:

Saravanane P, R. Poonguzhalan, S. Vijayakumar and K. Pooja. 2020. Crop-weed competition in blackgram in coastal deltaic eco-system. *Indian Journal of Weed Science* **52**(3): 283-285.

Saravanane P. 2020. Effect of different weed management options on weed flora, rice grain yield and economics in dry direct-sown rice. *Indian Journal of Weed Science* **52**(2): 102-106.

S. Vijayakumar, Dinesh Kumar, Y.S. Shivay, Anjali Anand, **P. Saravanane**, Poornima S, Dinesh Jinger and Nain Singh. 2019. Effect of potassium fertilization on growth indices, yield attributes and economics of dry direct seeded basmati rice (*Oryza sativa L*). *Oryza* **56** (2): 214-220

S. Vijayakumar, Dinesh Kumar, Y.S. Shivay, Anjali Anand, **P. Saravanane** and Nain Singh. 2019. Potassium fertilization for enhancing yield attributes, yield and economics of wheat (*Triticum aestivum*). *Indian Journal of Agronomy* **64** (2): 226-231

S. Vijayakumar, Dinesh Kumar, Y.S. Shivay, Anjali Anand, **P. Saravanane**, Poornima S, Dinesh Jinger and Nain Singh. 2019. Potassium fertilization to augment growth, yield attributes and yield of dry direct seeded basmati rice (*Oryza sativa*) *Indian Journal of Agricultural Sciences* **89** (11): 1916-

S. Vijayakumar, Dinesh Kumar, Y.S. Shivay, Sharma, VK, Sharma, DK, **P. Saravanane**, Poornima S and Nain Singh. 2019. Energy budgeting of aerobic rice (*Oriza sativa*)-wheat (*Triticum aestivum*) cropping system as influenced by potassium fertilization. **Indian Journal of Agricultural Sciences** 89 (11): 1911-15

Saravanane P., and Chellamuthu V. 2016. Seeding method and weed competition effect on growth and yield of direct seeded rice under puddled condition. **Indian Journal of Weed Science** 48 (3): 323-324

Saravanane P, Mala S, Chellamuthu V.2016. Integrated weed management in aerobic rice. **Indian Journal of Weed Science** 48:152-154

Saravanane, P. and Chellamuthu V. (2015) Economic analysis of weed management practices for transplanted rice in coastal ecosystem of Puducherry UT. **Madras Agricultural Journal** 102: 135-136

Akula S, Chellamuhtu V, **Saravanane P**, Sridevi P (2015). Split application of nitrogen and potassium along with azophos on yield of cotton in the coastal region of Karaikal, Puducherry UT. **Crop Research** 49:42-44

Saravanane P, Poonguzhalan R, Chellamuthu V (2012) Parthenium (*Parthenium hysterophorus* L.) distribution and its bioresource potential for rice production in Puducherry, India. **Pakistan Journal of Weed Science Research** 18:551-555.

Chellamuthu,V, **Saravanane,P** and Paradis,SG. 2011. Evaluation of Bajra-Napier cultivars under coastal ecosystem of Karaikal,Puducherry UT. **Madras Agric. J.**, 98 (7-9):253-254

Saravanane,P., Nanjappa,H.V..and B.K. Ramachandrappa . 2011. Effect of residual fertility of preceeding potato crop on yield and nutrient uptake of finger millet. **Karnataka J. Agric. Sci.**, 24 (2): 234-236.

Saravanane,P. 2008, Studies on the chemical and non-chemical methods of weed management in tomato, **Green Farming**,1(6): 20-22

Saravanane,P., Nanjappa,H.V.and B.K. Ramachandrappa,2008, Effect of weed utilization as nutrient source on soil fertility and tuber yield of potato. **Mysore J. Agric. Sci.**,42(3): 464-467

Saravanane,P., Nanjappa,H.V. and B.K. Ramachandrappa,2008, Effect of weed utilization on growth parameters, yield and nutrient uptake of potato. **Potato J.**,35(3-4): 122-125

Nanjappa,H.V., **Saravanane,P.** and B.K. Ramachandrappa, 2005, Biology and management of lantana camara (L)- A Review , **Agricultural Reviews**, 26 (4): 272-280

Saravanane,P. and Kandasamy, O.S., 2002, Effect of chemical and non- chemical methods of weed management on nutrient uptake by tomato crop and associated weeds, **South Indian Hort.**, 50 (4-6): 527- 532

Saravanane,P. and Kandasamy, O.S., 2002, Growth analysis and fruit quality studies in tomato under different weed management methods, **South Indian Hort.**, 50 (4-6): 342- 348

Saravanane,P. and Kandasamy, O.S., 2001, Studies on the weed management in tomato under coimbatore condition, **Pestology**, 25 (5): 35- 37.

5. Details of research projects handled as P.I/ Co-P.I

- i. Chemical and non-chemical methods of weed management in tomato. (1999-2000) **M.Sc Thesis**
- ii. Utilization of selected invaded weeds as nutrient source and their effect on potato - finger millet cropping system (2001-2004) **Ph.D Thesis**
- iii. Utilizing the problematic weeds (*Parthenium hysterophorus* and *Eichhornia crassipes*) for enhancing the production potential of rice in the U.T. of Puducherry (External funded project from DSTE, Puducherry 2008-09) -Co-PI
- iv. Relative performance of CN hybrids in the coastal region of Karaikal. (2009-10) Co-PI
- v. Yield Maximization in Bajra-Napier hybrid grass by optimizing plant population.(2010-11) Co-PI
- vi. Integrated weed management in aerobic rice (2011-12)
- vii. Effect of sowing time on *sesbania aculatea* seed production (2012)
- viii. Evaluation of herbicide mixtures in transplanted rice under coastal ecosystem of Karaikal.(Directorate of weed research co-ordinated trial from 2013, ICAR, India)
- ix. Evaluation of herbicide mixtures in direct seeded rice under coastal ecosystem of Karaikal.(Directorate of weed research co-ordinated trial from 2015 onwards ICAR, India)
- x. Estimation of yield losses in direct seeded rice in puddled irrigated condition (2015) Co-PI
- xi. Effect of allelopathic plant products on growth of *Parthenium hysterophorus* (2015)
- xii. Preliminary evaluation of herbigation in direct seeded rice. (Directorate of weed research funded trial from 2016, ICAR, India)
- xiii. Green synthesis of nanoparticles from medicinal weed and its utilization in agriculture. (External funded project from DSTE,Puducherry 2016-17)
- xiv. Herbicide combinations for control of complex weed flora in transplanted rice.(2017-18)
- xv. Herbicides combinations for control of complex weed flora in direct- seeded rice (semi dry system) (2017-18)
- xvi. Weed survey of *Parthenium hysterophorus* in Karaikal (2018)
- xvii. Preliminary investigation to study the allelopathic potential of *Sida acuta* on seed germination and seedling length of *Parthenium hysterophorus* (2019)
- xviii. Evaluation of non-chemical weed management methods in Finger millet (2019-20)

Some selected Conference / Seminar/ Symposium papers

- 1 **Saravanane,P.**, H.V. Nanjappa and B.K. Ramachandrappa. 2007. Allelopathic potential of invaded weeds on diverse weed spectrum of potato .In:Proc. of 21st Asian pacific weed Science Society : 437-441
- 2 **Saravanane, P.**, S. Sundaravarathan and Nanjappa, H.V.. 2008. Recycling the eco-problematic weeds as source of plant nutrients in Agriculture. In: Proceedings of National symposium on “Impending approaches to environmental menace, (IMEAM)”, held at T.B.M.L College, Porayar on 25th and 26th September, 2008.
- 3 **Saravanane, P.**, and Nanjappa, H.V., 2009, Study of weed utilization as nutrient source on yield and soil health of potato- finger millet cropping system. *In*: Proceedings of the national seminar on Recent advances in soil health and crop management for sustainable agriculture, February 26-27, Annamalai University, Chidambaram, Tamilnadu,309-313
- 4 Chellamuthu, V., **Saravanane,P.** and S. George Paradis. 2010. Yield maximization in Bajra-

- Napier hybrid grass by optimizing plant population in coastal region of Karaikal. In: Proceedings of XIX National symposium on “Resource management Approaches towards livelihood security” 2-4 December, UAS-GKVK, Bengaluru, Karnataka. P 352
- 5 R. POONGUZHALLAN, **P. SARAVANANE** and V. CHELLAMUTHU. 2012. Ecological distribution of water hyacinth and parthenium in the union territory of Puducherry. In Proc.; Extended summaries vol. 3: 3rd International Agronomy Congress, -30 November, 2012, IARI, New Delhi. P. 194-195
 - 6 V. CHELLAMUTHU, **P. SARAVANANE**, and George Paradis. 2012. Agronomic investigations to improve the productivity of Bajra-Napier hybrid grass in coastal region. In Proc.; Extended summaries vol. 3: 3rd International Agronomy Congress, 26-30 November, 2012, IARI, New Delhi. P. 1350-1151.
 - 7 **P. SARAVANANE**, R. POONGUZHALLAN and V. CHELLAMUTHU. 2012. Effect of Parthenium and water hyacinth used as bioresource for improving the rice productivity in Puducherry, India. In Proc.; Extended summaries vol. 3: 3rd International Agronomy Congress, 26-30 November, 2012, IARI, New Delhi. P. 1372-1373.
 - 8 C. Susheela, Nithya, S, Nivedita C, Paruvathavathani, M, Chellamuthu, V, **Saravanane, P** and Ramanadane, T. 2013. Optimizing the spacing for seed production of two green manure crops viz., Daincha (*Sesbania aculaeta*) and Manila Agathi (*Sesbania rostrata*). In. International conference on Conventional and non-conventional organic inputs in Agriculture, August 1 & 17, Puducherry. 213-216.
 - 9 **Saravanane, P.** and V. Chellamuthu. 2014. Management of diverse spectrum of weeds in aerobic rice of Puducherry. In: Biennial conference of Indian Society of Weed Science on “Emerging challenges in weed Management” at Directorate of Weed Science Research (DWSR), Jabalpur, 15-17 February, 2014: 77
 - 10 **Saravanane, P.** S. Mala and V. Chellamuthu. 2014. Integrated weed management in aerobic rice. In: Biennial conference of Indian Society of Weed Science on “Emerging challenges in weed Management” at Directorate of Weed Science Research (DWSR), Jabalpur, 15-17 February, 2014: 163
 - 11 **Saravanane, P.**, Poonguzhalan, R Ramanadane, T 2015. Allelopathic potential of botanicals against Parthenium. 25th APWSS, Hyderabad.
 - 12 **P. Saravanane.** 2018. Interventional weed management methods in direct seeded rice. *21st Australasian Weeds Conference*, The Weed Society of New South Wales Inc. Australia, 9-13 Sep 2018, Sydney, Australia. p.79.
 - 13 **P. Saravanane**, R. Poonguzhalan, V. Sridevi and Santosh Kumar Meena 2018. Integrated weed management strategies in direct-seeded semi-dry rice. Golden Jubilee International Conference on "Weeds and Society: Challenges and Opportunities", ICAR-Directorate of Weed Research, Jabalpur, India during 21-24 November 2018. 217

Poster papers

- 1 **Saravanane, P.** and H.V. Nanjappa. 2008. Residual Effect of Rabi Potato on Growth and Yield of Succeeding Finger millet in Eastern dry zone of Karnataka In: Abstracts of National symposium on “Integrated Approaches for Productivity Enhancement in Agriculture (IAPEA)”, held at Department of Agronomy, Faculty of Agriculture, Annamalai University, Chidambaram on 13th and 14th March, 2008. p.42
- 2 **Saravanane, P.**, S. Sundaravarathan and H.V. Nanjappa. 2008. Recycling the eco-problematic weeds as source of plant nutrients in Agriculture In: Abstracts of National symposium on “Impending approaches to environmental menace, (IMEAM)”, held at Porayar on 25th and 26th September, 2008. p.22
- 3 **Saravanane, P.** and H.V. Nanjappa. 2009. Study of Weed Utilization as Nutrient Source on Yield and Soil health of Potato- Finger millet cropping system **In: Proc. Natl. Sem. Recent**

- Adv. In Soil Health and Crop Management for Sustainable Agriculture*, Feb. 26-27, Annamalai University, Chidambaram, p. 66
- 4 Sowrirajan,A, Sowmya,P.K., **Saravanane**, P. and Subramanian,E. 2009. Post harvest losses in Finger millet(*Eleusine coracana* L.). *In: Abstracts of the national seminar on” A road map to emerging trends in food processing and marketing’*, September 17-18, PAJANCOA & RI, Karaikal,pp. 134
 - 5 Sowmya,P.K., Sowrirajan,A., **Saravanane**, P. and Saravanan.S., 2009. Post harvest losses in Sesame(*Sesamum indicum* L.). *In: Abstracts of the national seminar on” A road map to emerging trends in food processing and marketing’*, September 17-18, PAJANCOA & RI, Karaikal,pp. 135
 - 6 **Saravanane**, P. and Kandasamy,O.S., 2009, Effect of chemical and non chemical weed management practices on weed spectrum, yield of tomato and its residual effect on succeeding crops. *In: Abstracts of the national symposium on Weed threat to environment, biodiversity and agriculture productivity*, Tamil Nadu Agricultural University , Coimbatore,Tamilnadu , August 2-3 , pp. 137

Books chapter (ISBN)

P. Saravanane, H.V. Nanjappa and B.K. Ramachandrappa. 2007. Exploration of Efficient Technology for Maximizing the Production Potential of Potato (*Solanum tuberosum*) using Invaded Weeds.*In: Proceedings of 21st Century challenges to sustainable Agri-Food systems : Biotechnology, Environment, Nutrition, Trade and Policy*, 2007: 324-327.

Saravanane, P., Nanjappa, H.V and B.K. Ramachandrappa. 2010. Invasive weed management in potato based cropping system of south India. *In: Proceedings of 1st IOBC International workshop on biological control and management of *Parthenium hysterophorus*, 01-05 November, Nairobi, Kenya:p. 17*

Books with ISBN number

1. Babou, C., Guna., B and **Saravanane,P. 2010.** Irrigation and Weed Management. A.E. Publications, Coimbatore (ISBN 978-93-80460-10-9). Pp 1-195.

(Dr. P. Saravanane)