

CURRICULUM VITAE



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S. Managayarkarsi,

Working as Assistant Professor

Department of Entomology

Sethu Bhaskara Agricultural College and Research Foundation

Kalam kavi gramam, Visalayankottai, Karaikudi, Sivagangai

Residential address:

D/o. S. Sankar,

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Kovilkandangudi,

Kollapuram (PO),

Nannilam (Tk),

Thiruvarur (Dt),

Tamil nadu - 609 608.

ACADAMIC PROFILE

Educational Details (Graduation Onwards)				
Institution	Degree Awarded	Year of completion	OGPA/Percentage	Field of Study
Annamalai University, Annamalainagar, Chidambaram	Ph. D. Agricultural Entomology	2022	Will submit Thesis within December 2022	Plant tissue culture, Callus culture based secondary metabolite extraction, Characterization and Formulation of Phyto- insecticides
Annamalai University, Annamalainagar, Chidambaram	M.Sc., (Ag.) Entomology	2019	OGPA 9.25/10	Essential oil based stored pest management
Annamalai University, Annamalainagar,	B.Sc. (Ag.)	2017	OGPA 9.25/10	Agriculture

Chidambaram				
Annamalai University, Annamalainagar, Chidambaram	PG Diploma [Ornamental and Landscape Gardening]	2014	83 %	Ornamental and landscape gardening
Sri Sankara Matriculation Higher Secondary School, Peralam	HSC	2013	89.25 %	-
Crescent Girls Higher Secondary School, Ambagarathur.	SSLC	2011	95.6 %	-

Professional Career

Institution/ Company	Position	From (Date)	To (Date)	Responsibilities
Department of Entomology Faculty of Agriculture Annamalai University	Field Assistant Sulphur Mills Ltd, Mumbai sponsored scheme on “Evaluation of Bioefficacy and Phytotoxicity of LG 1 against insect pests of Rice”	January 2021	August 2022	Laboratory assay, Culturing of Test Insect, Field trials, Data collection, Statistical analysis, Yield assessment, Phyto-toxicity assessment and Effect on non target organism
Department of Entomology Faculty of Agriculture Annamalai University	Field Assistant UPL Ltd, Mumbai sponsored scheme on “Evaluation of Bio- efficacy and Phytotoxicity of UPI 120 against sucking pests and Bollworm in cotton”	September 2022	January 2023	Laboratory assay, Culturing of Test Insect, Field trials, Data collection, Statistical analysis, Yield assessment, Phyto-toxicity assessment and Effect on non target organism

National Eligibility Test (NET) conducted by Agricultural Scientist Recruitment Board (ASRB) in the year 2021	Qualified	60.89 % marks
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OTHER ACCOMPLISHMENTS

- ❖ **University PRO**, All India Agricultural Students Association (2021-2022)
- ❖ **Vice Chairperson (SZ), National Women Empowerment Cell**, All India Agricultural Students Association (2021-2022)
- ❖ **Student In-charge** - Insect culturing Facility, Pot-culture Yard, Experimental

farm, screen/poly house, and stores (upkeep & issue of materials), Department of Entomology, Annamalai University

- ❖ Diploma in Computer Application (DCA) [Grade B (70-79%)]
- ❖ MOOC–Online Course “**Integrated Pest Management**” Conducted by Agmooc’s during June 30, 2020

AREA OF INTEREST

- ❖ Storage Entomology
- ❖ Phytoinsecticide
- ❖ Plant tissue culture
- ❖ Formulations of Phyto-insecticides

PROFESSIONAL SKILLS DEVELOPED

- ❖ Botanical Insecticide Development: Collection and Processing of Plants, Extraction of plants, Fractionation of active ingredients (TLC, Column chromatography etc.), Secondary metabolites Characterization, and Formulation
- ❖ Plant tissue culture: Hands on trained on callus culture and organogenesis
- ❖ Mass culturing: Culturing of *Spodoptera litura*, Aphids, Epilachna beetles, fall armyworm, fruit borers on brinjal, bhendi and tomato, Thrips, Mealy bugs, Leaf hoppers, greater wax moth and stored product pests
- ❖ Indigenous Technical Knowledge (ITK) practices; Conferrer & Observer in many Farmer’s related Trainings & meetings

RESEARCH WORK

- ❖ Post-graduation research title: **Bioactivities of certain Synthetic volatile compounds and Essential oils against Coleopteran pests of stored produce**
- ❖ Doctoral Research title: Development of **callus culture based Novel Formulations of *Cleistanthus Collinus* (Roxb.) Benth. ex. Hook. F. Secondary metabolites and its evaluation against *Spodoptera litura*.**

PUBLICATION IN JOURNALS

- ❖ Kathirvelu, C., **Mangayarkarasi, S.** and Kulothungan K. 2019. Evaluation of phyto tablets formulation against key insect pest of stored produce under laboratory conditions. *Journal of Pharmacognosy and Phytochemistry*, SP2: 387-390.
- ❖ Kathirvelu, C., **Mangayarkarasi, S.** and Maline, A. S. 2019. Oviposition deterency and ovicidal effect of selected essential oils against *Callosobruchus chinensis* L. in laboratory conditions. *International Journal of Research and Analytical Reviews*, 6(2): 718-722.
- ❖ Kathirvelu, C., Muthukumaran, R., Kanagarajan, R. and **Mangayarkarasi, S.** 2019. Fumigant effect of tablet formulation of certain botanicals against key

- pests of stored produce in laboratory condition. *Journal of Applied Science and Computations*, **6**(6): 914-923.
- ❖ Kathirvelu, C., **Mangayarkarsi, S.** and Kanagaraj, B. 2020. Repellency effects of Synthetic Volatiles and Essential oils against *Callosobruhush maculatus* and *Tribolium castaneum*. *International Journal of Emerging Technologies*, **11**(1): 174-180.
 - ❖ Kathirvelu, C. **Mangayarkarasi, S.**, Ayyasamy, R. and Kannan, R. 2020. Fumigant toxicity of synthetic volatile compounds and essential oils against coleopteran pests of stored produce. *International Journal of Entomology Research*, **5**(2): 93-97.
 - ❖ **Mangayarkarasi, S., Selvamuthukumar, T., Indhra Arul Selvi, P. and Anandan, R.** 2022. Callogenesis of a potential Phyto-insecticide yielding plant *Cleistanthus collinus* (Roxb.) Benth. ex. Hook.F. *Journal of Xidian University*, **16**(7): 851-855.
 - ❖ **Mangayarkarasi, S and Selvamuthukumar, T. 2022.** Feeding deterrent effect of *Cleistanthus collinus* leaf extract against *Spodoptera litura* Fab. *International Journal of Entomology Research*, **7**(11): 11-12.
 - ❖ **Mangayarkarasi, S and Selvamuthukumar, T. 2022.** Evaluation of toxicity of *Cleistanthus collinus* leaf extract against *Spodoptera litura*. *International Journal of Entomology Research*, **7**(12): 78-80.

PAPER PRESENTED IN SEMINARS & CONFERENCES

- ❖ Participated and presented a paper titled “Do’s and Don’ts in Organic Agriculture” in the National seminar on “Organic Farming and Sustainable Agriculture” organized by ICAR in Directorate of Distance Education, Annamalai University, Annamalainagar during 2nd and 3rd March, 2016.
- ❖ Participated and presented a paper titled “Recycling of Agriculture Waste” in the National seminar on “Organic Farming and Sustainable Agriculture” organized by ICAR in Directorate of Distance Education, Annamalai University, Annamalainagar during 2nd and 3rd March, 2016.
- ❖ Participated and presented a paper titled “Biological Control of *Salvinia molesta*” in the National seminar on “Organic Farming and Sustainable Agriculture” organized by ICAR in Directorate of Distance Education, Annamalai University, Annamalainagar during 2nd and 3rd March, 2016.
- ❖ Participated and presented a paper titled in “Silencing coli in Rice increasing Susceptibility to cheering insects impairs inducible defence” in the National seminar on “Organic Farming and Sustainable Agriculture” organized by UGC SAP in the Department of Genetics and Plant Breeding, Annamalai University, Annamalainagar during 16th and 17th March, 2017.
- ❖ Participated and presented a paper titled “Effects of Tablet Formulation of certain Plant Species against Key Pest of Stored Produce in Laboratory conditions” in the National conference on “Emerging Trends in Phyto Pesticides and Pheromone Research” organized by Department of Entomology during 03rd & 04th January, 2019 at Annamalai University, Annamalainagar.

- ❖ Participated and presented a paper titled “Oviposition inhibitory and ovicidal effect of essential oil against *Callosobruchus chinensis*” in the National conference on “Emerging Trends in Entomology” organized by the PG & Research Department of Zoology, The American College, Madurai during 7th & 8th March, 2019.
- ❖ Participated and presented poster presentation on “Bibliographic and research gap analysis of Herbivore Induced Plant volatiles and pest Management – A case study” in the first NABS International Conference held from 26-28th August 2021 in the Faculty of Agriculture, Annamalai University.
- ❖ Participated and presented poster presentation on Bioactivities of synthetic volatile compounds and essential oils against *Callosobruchus maculatus* Fab. In Blackgram. In the first NABS International Conference held from 26-28th August 2021 in the Faculty of Agriculture, Annamalai University
- ❖ Participated and presented poster presentation on Evaluation of Sawdust Charcoal based Flammable Phyto-Fumigant Cakes against *Corcyra cephalonica* S. in 7th National Youth Convention on FSNS 2022 held from 24.03.2022 to 27.03.2022 in Tamil Nadu Agricultural University, Coimbatore.

WORKSHOPS ATTENDED

- ❖ Workshop on “Recent Techniques in Biological Control of Plant Pathogens” organized by Department of Plant Pathology, Faculty of Agriculture, Annamalai University during 5th and 6th October, 2018.
- ❖ Workshop on “Molecular technique in crop improvement” organized Department of Genetics and Plant Breeding, Faculty of Agriculture, Annamalai University, on 11th January, 2018.
- ❖ Workshop on “Abiotic Stress Tolerance in Crop plants” organized by Department of Genetics and plant Breeding, Faculty of Agriculture, Annamalai University during 11th and 12th October, 2018.
- ❖ Workshop on “Traditional Rice Varieties – A Boon to Climate Resilient Agriculture” organized by Department of Genetics and plant Breeding, Faculty of Agriculture, Annamalai University during 30th and 31th January, 2019.

WEBINARS & WEBCONFERENCE ATTENDED

- ❖ Participated in International Webinar on “**Taxonomy and Forensic Entomology**” Organized by Department of Zoology, Sant Gadge Baba Amravati University, Amravati on 31st May 2020.
- ❖ Participated in Eight week Online Course on “**Integrated Pest Management**” Conducted by **Agmoocs** during June 30, 2020.

- ❖ Participated in the “National level E-Certificate Course on Plant Tissue Culture” Organized by Department of Botany and IQAC, Vinayak Vidnyan Mahavidyalaya, Nandgaon (Khandeshwar, Maharashtra) during 1st June 2020 to 7th June 2020.
- ❖ Participated in the **“World Environment Day 2020 E-Quiz”** competition Organized by Mother Teresa college of Agriculture, Pudukottai, Tamil Nadu during 05.06.2020 to 10.06.2020
- ❖ Participated In Online Quiz on **“International Yoga Day”** conducted by NSS Unit No. 20, Vanavarayar Institute of Agriculture, Pollachi, with the score of 84% on 21st June 2020.
- ❖ Participated in the National Level Webinar on **“Locust and Man”** Jointly Organized by Mother Teresa college of Agriculture and All India Agricultural Students Association, Tamil Nadu on 24th June 2020.
- ❖ Participated in National Multilingual Conference on **“Problems and Opportunities in Agriculture: In and After Covid-19”** Organized by Internal Quality Assurance Cell, Jaysingpur College, Jaysingpur on 25th June 2020.
- ❖ Participated in **“Three days skill Development on Sericulture”** from July 15-17, 2021, organized by Department of Entomology, College of Agriculture, Faculty of Agriculture, Parul University, Vadodara.
- ❖ Participated in webinar on **“Recent Trends in Landscape Industry”** Organized by Department of Horticulture, Faculty of Agriculture, Annamalai University on 17th July 2020.
- ❖ Participated in National webinar on **“Intellectual Property Rights in Agriculture Sector”** under Aegis on World Bank-ICAR funded National Agricultural Higher Education Project (NAHEP) Organized by Swami keshwanand Rajasthan Agricultural University, Bikaner on 17th July 2020.
- ❖ Participated in National Level Online Quiz on **“Recent Advances in Pomology”** Organized by Horticulture, Adhiyamaan College of Agriculture and Research, Athimugam on 22nd July 2020 with a passing score of 68 %.
- ❖ Participated in National Level Online Quiz on **“Integrated Pest Management (IPM) in Agriculture”**, Organized by Department of Agriculture, Mandsaur University, Mandsaur (M.P) from 24-25 July 2020.
- ❖ Participated in International Webinar on **“Technology stewardship to promote effective use of ICT by Agricultural Communities of practices”** Organized by Department of Social Science, ACAR Athimugam on Aug 13, 2020. Participated in International Webinar on **“Advances in Stored Grain Protection”** organized on the eve of **International Year of Plant Health – 2020** by **National Institute of Plant Health Management**, Hyderabad on 25th November, 2020.

- ❖ Participated in the National Webinar “**Employability Skills**” held on 12th December, 2020 organized by PG Department of Commerce and Management.
- ❖ Participated in National Academy of Biological Sciences (NABE) & DST Purse II sponsored the International Virtual Conference on “**Nano Comes to Life**” organized by Department of Microbiology, Faculty of Agriculture, Annamalai University on 17th September 2021.
- ❖ Participated in International Conference on “**Reorienting Agronomic Research & Education to Combat Current and Future Challenges**” in organized by Department of Agronomy, PG College of Agriculture, NAHEP during September 20-22, 2021.
- ❖ Participated in the Online International Workshop on “**Changing Contours in Pest Management**” Organized by the Department of Entomology” Faculty of Agriculture, Annamalai University on 07 & 08th September 2021.
- ❖ Participated in the National Academy of Biological Sciences (NABS) and DST Purse II sponsored International Virtual Conference on “**Nutritional Security for the 21st Century**” Organized by the Department of Agricultural Extension, Faculty of Agriculture, Annamalai University on 18th September 2021.
- ❖ Participated in the Online National Workshop on “**Ethics & Regulatory Guidelines for Animal Experimentation**” Jointly Organized by Institutional Animal Ethics Committee and IQAC by on 30th October, 2021.

Particulars	Numbers
Journal Publications -National	3
Journal Publications – International	5
National Seminars Presented	4
National Conferences Presented	3
International Conferences Presented	2
Workshops Attended	4
Webinars Attended	5
International Virtual Conferences Presented	2
Online workshops	3
Online Quiz	3
E certificate course	2

OTHER SIGNIFICANT ACTIVITIES

ACADAMIC ACTIVITIES

- ❖ Undergone three-months intensive “Rural Agricultural Working Experience (RAWE) training programme” at Puvizhunthanallur, Kattumannarkudi (Block), (Dt.), Tamil Nadu.
- ❖ Visited EID parry sugar factory, Nellikuppam as part of Agricultural Industry Tie-up Programme at Cuddalore (Dt.), Tamil Nadu.
- ❖ Attended Internship Program Hand-on Training on **Tissue Culture** at Bionyme laboratories, Chrompet, Chennai, Tamil Nadu.

AWARDS & APPRECIATION

- ❖ Awarded with the **Dr. Rajah Sir Muthiah Chettiar Silver Jubilee Memorial Prize** for persuing highest mark in “**Principle of Plant Pathology**” in B.sc (Ag.) Degree Examination at the Convocation held on 17. 02. 2018 at Annamalai University.
- ❖ Awarded with best poster presentation titled “**Effects of Tablet Formulation of certain Plant Species against Key Pest of Stored Produce in Laboratory conditions**” in the National Conference on “Emerging Trends in Phyto Pesticides and Pheromone Research” organized by Department of Entomology during 03rd & 04th January, 2019 at Annamalai University.

PERSONAL INFORMATION

Date of Birth	: 23.09.1995
Father's Name	: S. Sankar
Mother's Name	: S. Ganthimathi
Nationality	: Indian
Community	: BC (Thulluva vellala)
Gender	: Female
Marital Status	: Single
Languages Known	: Tamil and English (spoken and written)
Hobbies	: Painting, Gardening

DECLARATION

I hereby declare that all statements that are given above are true and correct to the best of my knowledge and belief.

Thank you

PLACE: Annamalainagar

DATE: 19. 11. 2022

Yours sincerely,

(S. Mangayarkarsi)