



**Dr. D. ARUL RAJA SEKARAN**

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**Education**

**Ph.D. (Ag.) Soil science & Agrl. Chemistry**

- 2019-2024
- 9.04 OGPA
- Annamalai University, Chidambaram-608 002

**M.Sc. (Ag.) Soil science & Agrl. Chemistry**

- 2017-2019
- 8.23 OGPA
- Annamalai University, Chidambaram-608 002

**B.Sc. (Agriculture)**

- 2012-2016
- 7.08 OGPA
- Annamalai University, Chidambaram-608 002

**Schooling**

- Higher Secondary – 67 Percentage-VET Hr. Sec. School – Virudhachalam, Tamil Nadu, May 2012.
- SSLC –77 Percentage – Fatima Matric. Hr. Sec. School - Virudhachalam, Tamil Nadu, May 2010.

**PERSONAL SKILLS**

- ❖ Ability and willingness to learn.
- ❖ Sincere and Hardworking.
- ❖ Adoptable to new work environment and situation.
- ❖ Commitment to team work.
- ❖ Quick learner and Being Punctual.
- ❖

## TECHNICAL PROFILE

- ❖ Basic knowledge in computer applications
- ❖ MS Office
- ❖ MS Excel
- ❖ MS Power point
- ❖ Statistical analysis

## AREA OF INTEREST

- ❖ Research and Development
- ❖ Soil fertility & nutrient management

## RESEARCH WORKS

- ✓ Effect of Nano Zn and Fe composite on the micronutrient biofortification of rice in coastal Soil
- ✓ Studied about bio fortification of rice and productivity
- ✓ Synthesize and characterization of nano particles
- ✓ Effect of fortified organic manure with micro nutrients and bio active compounds on the growth, yield and micro nutrients bio fortification of black gram in coastal saline soil.
- ✓ Studied about bio fortification of black gram and productivity.
- ✓ Analysis both laboratory and field conditions.
- ✓ Evaluate the interaction of zinc and iron in field condition and increase nutrient content and yield compare to farmer's practices.

## EXPERIENCE

- ❖ Currently working as a HOD/Asst. Professor in Meenakshi Ramasamy Engineering college, Ariyalur District
- ❖ Worked as a trainer in **Naan Muthalvan Scheme (2024)** at **Dr.Ambedkar College of Arts and Science, Viyasarpaadi.**
- ❖ Worked as a crop advisor in **Cropex** Company Pvt. Ltd, at Chennai.
- ❖ Worked as a **Project Assistant (2020)** in the project entitled **Effect of Micronutrients with and without Nitrogen on Rice** sponsored by **T.Stanes and Co. Pvt Ltd.**

- ❖ Research experience on Conducting the field experiment (2021) in the farmer's field located at vadakku pichavaram, chidamabaram taluk entitled “**Effect of nano Zn and Fe nutrients on the fortification of rice in coastal soil.**”
- ❖ Research experience Conducting the field experiment (2019) in the farmer's field located at Aathivaraganallur, Bhuvanagiri taluk entitled “**Effect of fortified organic manure on the growth and yield of black gram in coastal saline soil**”

## PUBLICATION

- ❖ **Arul Raja Sekaran, D., Bakkiyaraj, M., Rajakrishnamoorthy, P., & Singaravel, R. (2026).** Influence of biochar and zeolite-based Zn and Fe nano composites on nutrient content, uptake, and agronomic fortification of Zn and Fe in rice. Phosphorus, Sulfur, and Silicon and the Related Elements, 1–7. <https://doi.org/10.1080/10426507.2026.2640178>
- ❖ Book Published - Babu, B., Vanisri, K., Sumathra, S., & Arul Raja Sekaran, D. Agricultural Machinery Design and Farm Mechanization. First Edition. CIIT Research, ISBN: 978-93-6126-146-6.
- ❖ **Arul Raja Sekaran, D.** et al., *An AI-Driven Precision Soil Health Assessment System for Crop Productivity Enhancement*, Indian Patent Application No: **202641016737**, filed on **16 Feb 2026**, Office of the Controller General of Patents, India.
- ❖
- ❖ Effect of nano Zn and Fe composite on the soil nutrient availability in coastal soil **D. Arul Raja Sekaran, D., R. Singaravel., V. Prabhu and N. Mathivanan. Scientific farming practices for soil and crop improvement Vol 2.1 :163-172**
- ❖ Strategies to increase nitrogen and zinc use efficiency for climate smart coastal soil nutrient management. Singaravel R., Viswanathan K., **Arul Raja Sekaran D.**, Keerthana K., and M. Seenivasan. *Nanoworld J 9 (S3): S273-S277.*
- ❖ Effect of Zn and Fe composites on the micronutrient biofortification of rice on coastal soil. **Arul Raja Sekaran, D.**, and R. Singaravel. 2023. *Indian J. Applied & Pure Bio., 38(2): 864-871.*
- ❖ Preparation and Characterization of Zinc oxide (ZnO) and Iron oxide (FeO) nanoparticles by precipitation method. **D. Arul raja sekaran\***, R. Singaravel and K. Krishnasamy. *Ind. J. natural sciences 13 (73): 45581- 45586 (2022).*
- ❖ Fortified organic manure effect on the nutrient availability in coastal saline soil. **D. Arul raja sekaran\***, R. Singaravel and P. Senthil valavan. *Int. J. of Recent Sci Res. 12 (8): 42744-42747 (2021).*
- ❖ Effect of micronutrient and bioactive compounds fortified organic manure on the growth and yield of black gram in coastal saline soil. **D. Arul raja sekaran\***, R. Singaravel and P. Senthil valavan. *Res. on crops 21(1): 54- 58 (2020).*

- ❖ Effect of fortified organic manure with micronutrients and bio active compound on the nutrient availability and Zn and Fe bio fortification of black gram in coastal saline soil. **D. Arul raja sekaran\***, R. Singaravel and P. Senthil valavan. *Plant archives 20(1): 2624-2628 (2020)*.
- ❖ Growth characteristics, Yield attributes and Yield and biofortification of Zn and Fe in rice through nano Zn and Fe composites in coastal saline soil. **D. Arul raja Sekaran**. Abstract published on 14<sup>th</sup> National conference on Innovation in biology and biotechnology for their application in agriculture and animal sciences for food security..**Jan 28 &29,2025**.

## CONFERENCES/ PRESENTATION

- ❖ Participated in an international conference entitled Challenges and opportunities for soil quality crop nutrition and food security and presented a o paper on **Growth characteristics, yield attributes and yield and biofortification of Zn and Fe through Nano Zn and Fe composites of rice in coastal soil ”** and got a “**Best Oral presentation award”** sponsored by TNSCST(2025).
- ❖ Poster presentation in the national seminar entitled “**Effect of fortified organic manure on the nutrient content and uptake by black gram in coastal saline soil”** and got a “**Third prize for poster presentation award”** (APSR- 2019) sponsored by UGC-SAP.
- ❖ Poster presentation in national conference entitled “**Effect of fortified organic manure on the growth and yield of black gram in coastal saline soil”** (NMTSAAI-2019) sponsored by NLC INDIA LIMITED AND DST-PURSE.
- ❖ Oral presentation in international conference entitled **Effect of fortified organic manure on sustaining soil nutrient availability in coastal saline soil”** and got a “**Best Oral presentation award”** sponsored by AIASA (2020).
- ❖ Oral presentation in national conference entitled **Strategies to increase the nitrogen and ZUE in salt affected soils of coastal agro ecosystem (TITENUETMFSAES-2018)** sponsored by DST-PURSE.
- ❖ Participated in the International virtual conference on **Transforming Agricultural Advisory Services To Mitigate The Effects Of The Pandemic For Farmers Welfare (Ictaas-**

- 2021) Organized By Vaial, Vellore, India, Tanuvas, Chennai, India, Bhu, Ethiopian And Anu, Sudan (*Nov-2021*)
- ❖ Participated in the International conference on **Modelling. Simulation And Optimization Of Energy Systems (Msoes-2023)** And Presented A Paper Entitled **Effect Of Nano Zn And Fe On The Soil Nutrient Availability In Coastal Soil** Organized By **Canadian University, Dubai, Uae In Conjunction With United Arab Emiartes University, Al Ain, Uae, And Dr B.R. Ambedkar National Intitiute If Technology Jalandhar Punjb India (*June-2023*)**.
  - ❖ Participated in the National conference on Innovation in biology and biotechnology for their application in agriculture and animal sciences for food security..**Jan 28 &29,2025** Organised by TNAU, Kudumiyamalai & National Academy of Biological Sciences,Chennai submitted abstract on Growth characteristics, Yield attributes and Yield and biofortification of Zn and Fe in rice through nano Zn and Fe composites in coastal saline soil.

#### **WORKSHOP ATTENDED/WEBINAR**

- ❖ Participated in UGC sponsored workshop on **“FERTILIZER ASSOCIATION OF INDIA (FAI)” (*2018*)**.
- ❖ Participated in DST sponsored National seminar on **TECHNOLOGICAL INTERVENTIONS TO ENHANCE NUTRIENT USE EFFICIENCY TO MEET FOOD SECURITY AND ENVIRONMENTAL SUSTAINABILITY” (*2018*)**.
- ❖ Participated in UGC SAP DRS-II sponsored workshop on **“TRADITIONAL RICE VARIETIES - A BOON TO CLIMATE RESILIENT AGRICULTURE” Organized by Department of Genetics and Plant Breeding, Annamalai University (*Jan-2019*)**.
- ❖ Participated in UGC SAP DRS-II sponsored workshop on **“ABIOTIC STRESS TOLERANCE IN CROP PLANTS” Organized by Department of Genetics and Plant Breeding, Annamalai University (*Jan-2019*)**.
- ❖ Participated in National webinar on **“SIGNIFICANCE OF SPACE TECHNOLOGY ON CROP AND SOIL SUSTAINABILITY”,Organized by**

**Department of Soil Science and Agri. Chemistry, Annamalai University  
(Aug-2020).**

- ❖ **Participated in the webinar organized by Faculty of Science, Annamalai University in collaboration with ELSEVIER on BASIC AUTHOR WORKSHOP RESEARCH ARTICLE WRITING & REFERERNC E MANAGEMENT USING MENDELEY, (2020).**
- ❖ **Participated in National webinar on “ANNONA- THE FRUIT OF 21 CENTURY”,organized by JSA college of Agriculture and technology. (July,2020).**
- ❖ **Participated in the National webinar on “LANDSCAPE TOOLS FOR SMART SOCIETIES” by the Department of Horticulture, Annamalai University (July 2020).**
- ❖ **Participated in the National webinar on “RECENT ADVANCES IN THE IMPROVEMENT OF CUCURBITACEOUS VEGETABLES” by the Department of Horticulture, Annamalai University (July 2020).**
- ❖ **Participated in the National webinar Series on “IMMUNO NUTRITION, WELLNESS MANAGEMENT & LIVELIHOOD CHANGE”organized by the AICRP ON WOMEN IN AGRICULTURE, ASSAM AGRICULTURAL UNIVERSITY, BHUBANESWAR (July,2020)**
- ❖ **Participated in the National webinar on “THERMO ELECTRIC NANOMATERIALS FOR GREEN ENERGY APPLICATIONS” Organized by the Department of Physics, SJR college for women, Bengalore, Karnataka (July 2020).**
- ❖ **Participated in National seminar on “REVITALIZING SOIL HEALTH THROUGH NATURAL RESOURCE MANAGEMENT IN A CLIMATE CHANGE ERA (RSHNRMC, 21)” Organized by Department of Soil Science and Agri. Chemistry, Annamalai University (March,2022).**
- ❖ **Participated in National seminar on “TECHNOLOGICAL INTERVENTIONS TO ENHANCE NUTRIENT USE EFFICIENCY TO MEET FOOD SECURITY AND ENVIRONMENTAL SUSTAINABILITY and gave oral presentation entitled “STRATEGIES TO INCREASE THE NITROGEN AND ZINC IN SALT AFFECTED SOILS OF COASTAL AGRO**

**ECOSYSTEM”,Organized by Department of Soil Science and Agrl. Chemistry, AnnamalaiUniversity (Oct-2018).**

- ❖ **Participated in National webinar on “LOCUST AND MAN”,Organized by Mother Terasa College of Agriculture and AIASA (June, 2020).**

**Declaration:**

I hereby declare that the particulars mentioned above are true to the best of my knowledge and belief.

**Place:**

**Date:**

**(D. Arul Raja Sekaran)**