

N KARKUZHALI

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Objective

Aspiring agricultural scholar with a strong foundation in entomology and pest management, committed to sustainable crop protection and agri-input innovation. Seeking a professional environment that fosters growth and allows effective application of my skills in agriculture and technology-driven fields.

Education

M.Sc (Ag.) Entomology Tamil Nadu Agricultural University (2023- 2025)	92.4%
B.Sc (Hons) Agriculture Annamalai University (2019-2023)	91.4%
HSC Saraswathi Vidyalaya Matriculation Higher Secondary School (2018-2019)	87.833%
SSLC Saraswathi Vidyalaya Matriculation Higher Secondary School (2016-2017)	98.6%

Skills & Competencies

- **Software Proficiency and technical skills:** MS Office (Word, PowerPoint, Excel), R-Software, MATLAB (for data analysis and image processing,
- **Graphic Design Tools:** Proficient in creating scientific and technical illustrations
- **Communication & Leadership:** Decision-making, team collaboration, and problem-solving.
- Arduino Programming & Sensor Calibration
- Basics of Python and Image Processing (using MATLAB image processing and Teachable machine)

Relevant Certifications, License and Workshops

- **Agri-Arduino: Towards Digital and Precision Agriculture – 2025:** Gained practical skills in Arduino-based systems, sensor integration, and automation in agriculture.
- **MOOC on Artificial Intelligence in Agriculture- 2025:** Gained knowledge on the usage of Python in Agriculture, image processing, sensor integration, and Website creation and usage
- **Data Analysis Using 'SPSS' Programming & Research Publication:** Obtained a practical skills on advanced statistical tool "SPSS", and various statistical tools.

- **Drone pilot** : Certified drone pilot for small drones, and gained knowledge on drone operation and various field calculation for operating drones upto 25 kgs weigh.

Publications and Awards

- **Karkuzhali, N.**, Edward, Y. J. T., Chitra, N., Senthilkumar, M., & Ramalingam, J. (2025). Unveiling the diversity of gut microbes in green lacewings (Chrysopidae: Neuroptera) and their role as protagonist in nutrition. *Archives of Microbiology*, 207(5), 100. <https://doi.org/10.1007/s00203-025-04289-0>
- Best Brief Oral Presentation Award at the International Conference on OHPGPR (One Health Perspectives in Global Protection Research) 2025.

Experience

- **Insect rearing-** Had a wide experience on rearing various beneficial insect during research period such as apiculture, sericulture and bio control agents
- **Tree and medical plant growing-** During the RAWE programme, I leaded a team with 15 members and planted various tree crops such as Mahogany, Rosewood, and Albizia, and medicinal plants such as coleus and *Gloriosa* sp. Have a basic knowledge on coconut hybridization through my internship.

Languages

- Tamil (Fluent)
- English (Fluent)
- Hindi (Learning)
- Latin (Learning)

Strengths

- Strong foundation in insect ecology, biological control, and IPM
- Good communication and teamwork skills
- Keen interest in sustainable agriculture and renewable energy applications in farming

Extracurricular Activities

- Painting and pencil sketches
- Hindi language learners and Latin learners (Beginner level)

Declaration

I hereby declare that all the details provided above are true to the best of my knowledge and belief.

Signature:
N. Karkuzhali