

ACHINTHI PREMASIRI

ACADEMIC WRITER

CONTACT

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PROFILE SUMMARY

Dedicated academic writer with 2+ years of solid research experience in the Science field. Skilled in academic writing, literature reviews, data analysis and producing clear, accurate and well-structured scientific writing for educational and professional audiences. Committed to delivering original, high-quality content with strong critical insight.

EDUCATION

2025 - Present
UNIVERSITY OF RUHUNA

- Master of Science in Agriculture

2020 - 2024
UNIVERSITY OF JAFFNA

- Bachelor of Science in Agriculture (Hon's)

SKILLS

- Scientific Writing
- Literature Review & Research Synthesis
- Data Analysis & Interpretation
- Editing & Proofreading
- Communication & Presentation
- Reference Management & Citation Skills

LANGUAGES

- English: Fluent
- Sinhala: Fluent
- Tamil : Intermediate

WORK EXPERIENCE

University of Ruhuna
Research Assistant

2024- PRESENT

- Assisting in conducting laboratory and field research in agriculture, biotechnology and plant sciences. Performing experiments in plant tissue culture, molecular biology, nursery management, pest and disease monitoring and soil ecology.
- Collecting, analyzing and interpreting data for reports, publications and presentations.
- Conducting literature reviews, preparing technical documents, supporting manuscript drafting, ensuring, maintaining lab standards and contributing to developing research protocols.

EuroAsia Agro (Pvt) Ltd, Gampola
Intern

2023

- Experienced in comprehensive training in nursery management and sustainable agriculture and equipped with greenhouse farming.

SunAgro LifeScience Limited, Colombo
In - Plant Trainee

2021

- Created plans to propose solutions to problems related to efficiency, costs and profits.
- Provided support to existing staff on Research and Development section duties.
- Worked alongside the preparation of organic fertilizer using Neem and *Pseudomonas fluorescens* and greenhouse farming.

RESEARCH EXPERIENCE

- Developed an *in vitro* production protocol for *Murraya koenigii* (curry leaf). Undergraduate Research Project (B.Sc. Agriculture, University of Jaffna): Grade: A
- Established efficient *in vitro* propagation methods for the *Zingiber officinale* (ginger) variety 'Siddi' and *Curcuma longa* (turmeric), enabling large-scale, disease-free plant production.
- Conducted tissue culture trials on medicinal plants including *Evolvulus alsinoides* (Vishnukranthi), *Flueggea leucopyrus* (Katupila) and *Salacia reticulata* (Kothalahimbutu) for conservation and sustainable utilization.
- Extracted and analyzed secondary metabolites from Katupila and Kothalahimbutu to evaluate phytochemical content and bioactive compound potential.
- Implemented AI-driven *Oryza sativa* (paddy) yield forecasting using open satellite data, weather APIs, and historical agro-zone information for Sri Lankan rice production.

PUBLICATIONS

- "Medicinal Plant Cultivation and Post-Harvest Management." (Book Chapter, in press) In Propagation and Sustainable Utilization of Medicinal Plants (Eds.), CRC Press, Taylor & Francis Group, USA.
- "Plant Tissue Culture for Mass Production of Medicinal Plants." (Book Chapter, in press) In Propagation and Sustainable Utilization of Medicinal Plants (Eds.), CRC Press, Taylor & Francis Group, USA.
- "SSR Marker Assisted Selection and Monitoring of High Metabolite Cell Lines in Plant Tissue Culture." (Book Chapter, in preparation), Springer Science+Business Media, LLC, New York, USA.
- "ISSR Marker Based Authentication of In Vitro-Derived Medicinal Plant Lines for Enhanced Phytochemical Production." (Book Chapter, in preparation), Springer Science+Business Media, LLC, New York, USA.
- Development of an *in vitro* protocol for efficient shoot proliferation in *Murraya koenigii* (curry leaf). International Conference on Agriculture and Plantation Management (InCAPM2025), Wayamba University, Sri Lanka. 2025.
- Optimized *in vitro* seed culture for disease-free propagation of *Murraya koenigii* (curry leaf). International Symposium on Agriculture & Environment (ISAE 2025), University of Ruhuna, Sri Lanka. 2025.
- Innovative *in vitro* propagation of *Zingiber officinale* (ginger) local variety "Siidi" for sustainable commercial cultivation and biodiversity conservation. 7th Young Scientists' Conference on Multidisciplinary Research (YSCMR 2025), organized by the Young Scientists' Association of the National Institute of Fundamental Studies (NIFS-YSA), Sri Lanka. 2025.
- Efficient *in vitro* propagation approach for mass multiplication of *Curcuma longa* L. (turmeric). 3rd International Online Conference on Agriculture, SciForum, 20 October 2025, MDPI - Session: Crop Production.
- AI-driven *Oryza sativa* (paddy) yield forecasting using open satellite data, weather APIs & historical data for Sri Lankan agro zones. 5th International Electronic Conference on Agronomy, SciForum 2025.

CERTIFICATIONS

- How to Write a Research Paper: Step-by-Step, Dr. Faheem Ullah, Certificate of Completion, November 2025
- Presenting Author, International Conference on Agriculture and Plantation Management (InCAPM2025), Wayamba University, Sri Lanka, 2025
- Presenting Author, International Symposium on Agriculture & Environment (ISAE2025), University of Ruhuna, Sri Lanka, 2025
- Presenting Author, 7th Young Scientists' Conference on Multidisciplinary Research (YSCMR2025), NIFS-YSA, Sri Lanka, 2025
- Presenting Author, 3rd International Online Conference on Agriculture, SciForum 2025

REFERENCES

Dr. (Mrs.) Suvanthini Therensan

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University of Jaffna,
Sri Lanka.

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