

Binsiya Kallingal
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EDUCATION

MS in Soil Science and Agricultural Chemistry
University of Agricultural Sciences, Raichur, Karnataka, India

GPA: 9.28/10.00
August 2019

Major courses: Soil physics, Soil genesis, survey and classification, Analytical techniques and instrumental methods of analysis, Principles and practices of water management, Soil microbiology, Design of experiments, Soil fertility and fertilizer use, Soil chemistry, Management of problematic soils and water, Fertilizer and manure technology, Basic biochemistry, Physiological and molecular responses of plants to abiotic stress.

Thesis: "Optimization of iron fertilization for Sorghum (*Sorghum bicolor* L.) in black soil"

BS in Agriculture
Kerala Agricultural University, Thrissur, Kerala, India

GPA: 8.64/10.00
July 2017

Major relevant courses:

Soil science courses: Soil chemistry, soil fertility and nutrient management, Fundamentals of soil, water and conservation engineering, Fertilizers and agrochemicals, Organic farming and soil health, Agricultural biochemistry (Total credit hours: 15)

Agronomy courses: Principles of agronomy, Introductory agriculture, Weed management, Irrigation and water management, Field crops-I, Field crops-II, Cropping pattern and farming systems, Agricultural microbiology (Total credit hours: 16)

Statistics course: Design and analysis of experiments, Basic statistics, Introduction to computer applications (Total credit hours: 6)

RESEARCH AND PROFESSIONAL EXPERIENCES

Senior Research Fellow
Rubber Research Institute of India, Kottayam, India

May 2022 - Present

- Formulating site specific fertilizer recommendations for rubber

- Soil and plant nutrient analysis of samples collected from traditional and non-traditional rubber growing areas of India
- Validation and updation of RubSIS (Rubber Soil Information System) software
- Instrumentation and maintenance of laboratory equipment
- Conducting research on the effect of using IFFCO Nanourea - liquid fertilizer on rubber as replacement for conventional urea
- Conducting studies on hardening and ex-vitro propagation of rubber under biotechnology division

Project Fellow

February 2022 - May 2022

Centre for Water Resources Development and Management (CWRDM)

- Conducted surveys and collected soil samples from various constituencies in Kerala for nutrient status analysis
- Analysis of water samples for estimation of quality of irrigation water and determination of heavy metal contamination, Biological Oxygen Demand (BOD), Chemical Oxygen Demand (COD), etc.
- Took training class on “Sustainable development of watershed area by adopting soil and water conservation activities” to farmers
- Carried out a project work on “Prioritization of constituencies for implementing schemes for the development of micro watersheds” using Sub Watershed Prioritization Tool (SWPT) in Arc Map

Assistant Professor

October 2020 – February 2021

College of Agriculture, Ambalavayal, India

- Taught courses like “Environmental studies and Disaster management”, “Fundamentals of Soil Science”, “Fertilizer, Manures and Agrochemicals”, “Soil Fertility and Fertilizer Use” and “Geoinformatics, Nanotechnology and Precision Farming” for BS Agriculture students
- Conducted practical sessions on soil and water sampling, nutrient analysis for BS Agriculture students
- Conducted training class on “Soil health card” as part of World Soil Day celebration.
- Took part in the initiation of “Centre of Excellence for Vegetables and Flowers” – an Indo-Dutch project

Farm Officer

October 2019 – April 2020

Regional Agricultural Research Station (RARS), Pattambi, India

- Sampling and analysis of soil samples collected from experimental plots
- Conducted seminar on “Long term fertilizer trials, fertilizers and organic manures” to farmers
- Provided training on “Nutrient deficiency symptoms and their management” to BS Agriculture students as part of their Rural Agriculture Work Experience (RAWE) program
- Assisted in laying out of field experiments, field maintenance, recording observations, data analysis and preparation of reports

AWARDS AND HONOURS

- Merit scholarship for MS in Agriculture for two years (2017-2019)

PUBLICATIONS

- Gracy Mathew, Binsiya, K. and Karthikeyan K. Extended summary on “Evaluation of scientific production package vs. farmer’s practices in rice farming. *1st Indian Rice Congress*. 2020. 805-806.

SKILLS AND KNOWLEDGE AREAS

- Soil Science: Soil and plant sampling; Soil, plant and water nutrient analysis
- Well versed with handling of instruments like flame photometer, atomic absorption spectrophotometer, pH and EC meter
- Languages known: English, Malayalam

ADDITIONAL SKILLS AND CAPABILITIES

- Knowledge in MS office apps such as MS Word, MS Excel and MS PowerPoint
- Experience in laboratory and field experiments and operation and maintenance of laboratory
- Basic knowledge in using Arc map (ESRI’s web-based mapping software)
- Experience in handling classes to students and farmers