

Salwin Maliakal Shaju

Work History

11/2023 - 03/2024	Sustainable Farming Intern : Maize and Wheat <i>BASF Digital Farming GmbH, Cologne, Germany</i> <ul style="list-style-type: none">• Procurement and maintenance of herbicide data.• Quality assurance of product data to create digital herbicide recommendations.• Documentation of control systems to create smart thresholds for OneSmartSpray.• Improvement of the onboarding process for new employees.
10/2023 - 03/2024	Master Thesis in Precision Agriculture : Winter Wheat Trial <i>Technical University of Munich, Freising, Germany</i> <ul style="list-style-type: none">• Extensive use of R for efficient data management to support decision-making and reporting.• Hypothesis Testing:<ul style="list-style-type: none">• Anova• Post-Hoc test• Paired t-test• Modeling• Regression Analysis• Prediction & Validation• Zonal Statistics (QGIS and R)• QGIS & R: Parameter Extraction, VIs and CHM, from Multispectral and RGB Drone Images (Ortho Mosaic).• Deduced Canopy Height Model from = DSM-DEM• Packages: "raster," "rgdal," and "exactextractr" (R Library)• Know-how in Generating Shape-files• Final Grade; 1.7
08/2022 - 09/2023	Research Assistant : Maize Trial <i>Technical University of Munich, Freising, Germany</i> <ul style="list-style-type: none">• Data collection in field and greenhouse experiments: Conducted measurements of maize traits, such as early and final plant height, determination of the developmental stage, assessment of the chlorophyll content, evaluation of flowering time, and assessment of root traits.• Laboratory work: Prepared maize leaf samples for various analyses, including DNA extraction and microscopy. Use of software like ImageJ to measure stomata size and number.• Data analysis and reporting: Performed in-depth statistical analyses of large maize phenotypic datasets using the R programming language. Interpreting results, comparing them to existing literature, and producing a comprehensive report.• Field trips: Embarked on field trips across Germany to support maize research initiatives, collaborating with experts in the field and gaining valuable insights.
06/2023 - 09/2023	Research Assistant : Winter Wheat Trial <i>Technical University of Munich, Freising, Germany</i> <ul style="list-style-type: none">• Assisted in implementing effective weed management practices for wheat and potato fields.• Participated in collecting and processing research data for winter wheat,



Personal Info

Email
salvinshaju@gmail.com

Address
Angamaly, Kerala, India

Phone
+919188794160

Skills

Statistical software : Fluent in R

Scrum Tools : Jira & Confluence

Microsoft office 365

G-Suite

Competent in QGIS

Python(Basic)

Project Management

Language

German - B2

English - C1

Hindi - B2

Tamil - B2

Malayalam - C2

Interest

- Reading and watching mystery books or lectures, e.g. "The Power of Your Subconscious Mind."
- Learning new things; typing (62 wpm), Rubik's Cube (one minute).
- Writing quotes and short poems in my language.

paying meticulous attention to details and accuracy.

- Know-how in operating advanced precision farming equipment, including; LAI-2000 Plant Canopy Analyzer, SPAD-502 Chlorophyll Meter, ASD FieldSpec Spectrometer, LI-6800 Portable Photosynthesis System.
- Supported drone flight missions by arranging field setups involving ground control points and reflectance panels.

- Games; Carroms, chess and soccer (position: defender)

Education

10/2020 - 03/2024	Horticulture, Master of Science <i>Technical University of Munich(TUM), Freising, Germany</i> Final grade: 1.8
07/2015 - 05/2019	Agriculture, Bachelor of Science <i>Tamil Nadu Agriculture University(TNAU), Trichy, India</i> Final Grade: 2.5

Awards

2022	Scholarship for International Students(TUM)
2016	Indian Council of Agriculture Research (ICAR) National Talent Scholarship

Certificates

09/2018	Trainning on Organic Terrace Gardening
09/2019	Participation in National Conference on "Farmers Orientation towards Climate Change and Upgradation to Sustainable Agriculture"