

PERSONAL DETAILS

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OBJECTIVES

To utilize genomics and molecular techniques for enhancing crop resilience and productivity under climate change conditions.

To develop innovative practices that promote ecological balance and global food security.

To contribute to cutting-edge research on soil health and sustainable nutrient management through interdisciplinary approaches.

SOFT SKILLS

- Microsoft Office
- Leadership and Adaptability
- Detail-orientation and Problem Solving
- Planning and time management
- Teamwork, communication and Collaboration
- Scientific writing and Critical thinking

LANGUAGES

English (High intermediate)
Urdu (Excellent)
Kashmiri (Native)
Hindi (Fluent)
Arabic (Basic)

Hadiya Kounsar (she/her)

GRADUATE- MS AGRONOMY

I am an agronomist, passionate about crop sciences with an aim to leverage my expertise in agronomy, plant physiology, soil health, and molecular biology to advance sustainable agricultural practices and develop innovative solutions for global food security. I am proficient in crop and nutrient management practices, tillage systems, molecular and biochemical techniques. I am committed to contributing to interdisciplinary research on genomics and ecological sustainability and eager to utilize my diverse skill set to explore novel methodologies that promote resilience in agricultural practices.

Education

Master of Science in Agriculture **Oct 2020- Nov 2022**
(Major Agronomy Minor soil science & crop physiology)

Sher-e-Kashmir University of Agricultures Sciences and Technology,
Kashmir, India
OGPA: 8.451

Bachelor of Science (Agriculture) **Dec 2016- Aug 2020**

Sher-e-Kashmir University of Agricultures Sciences and Technology,
Kashmir, India
OGPA: 7.850

EXPERIENCE

INTERN SKUAST-K

1. Genetics and Molecular Lab (June 2024 – January 2025)
2. Project in Agronomy (2023 – 2025)

As a part of research and I am involved in managing the experimental layout, sowing, growth and development of maize and nutrients and learned fundamental techniques such as DNA isolation, PCR in Genetics and Molecular Lab to improve my experience, skills and efficiency in crop sciences. Worked on protocols to gain hands-on-expertise in similar projects.

SCIENCE TEACHER NETHER FIELD SCHOOL

March 2019 - March 2020

Mostly involved in teaching and student activities.

RESEARCH EXPERIENCE

Conducted study on the “[Performance of Quality Protein Maize under Different Sources and Levels of Zinc](#)”.

The research objectives were to study the performance of different sources and levels of zinc on growth and yield of Quality Protein Maize, to study the effect of zinc on quality and nutrient uptake of Quality Protein Maize and to work out relative economics of treatment combination.

TECHNICAL SKILLS

- Molecular Biology: DNA isolation, PCR, biochemical extractions.
- Research and Analysis
- Fundamental understanding of DSSAT.
- Statistical Analysis: knowledge in experimental design and multivariate analysis. R Studio, OPSTAT software and Excel
- Laboratory Skills: Handling of chemicals, protocol and lab safety compliance. Proficient in operating dual purpose Kjeldahl apparatus, Spectrophotometer, Flame photometer, pH and EC meter.
- Know-how in Root scanning.
- Project management, field data collection and environmental monitoring

FIELD EXPERIENCES

- Proficient in laying out designs in Split Plot, RBD; Factorial.
- Experienced in data collection and tabulation (pre and post-harvest) in my master’s research for maize production techniques, resulting in improved crop yields.
- Worked closely with farmers and growers under the **Rural Agricultural Work Experience (RAWE)** Program.
- Experience in crop production techniques in Maize, Beans, Tomato, Cucumber, Kale, under Experimental Learning program.
- Floriculture production techniques under greenhouse conditions: cultivation of various varieties of marigold under greenhouse under Experimental Learning program.
- Know how in grafting techniques learnt from practical in undergrad courses.

PEER REVIEWED PUBLICATIONS

1. **Kounsar, H., et al.** 2023. Effect of sources and levels of zinc in growth rate, grain yield and economics in Shalimar QPMH-1 hybrid. *Maize Journal* **12**(1): 28-36
https://mtaisociety.weebly.com/uploads/1/9/1/1/19115893/maize_journal_vol.12_1_april_2023_revised_book_27.12.2023.pdf
2. Gogoi, Barenaya, Raihana H Kanth, Tauseef Ahmad Bhat, Amal Saxena, Inayat M. Khan, Fehim J. Wani, Aijaz Nazir, Bisma Jan, **Hadiya Kounsar**, Bilkees Jamsheed, Khursheed Ahmad Dar, and Jibinsha P T. 2024. “Efficacy of Nano Urea on Nitrogen Use Efficiency of Irrigated Maize under Temperate Ecology”. *Archives of Current Research International* **24** (6):396-409.
<https://doi.org/10.9734/acri/2024/v24i6797>

3. Bashir, Sheikh Danish, Tauseef A. Bhat, Bilkees Jamsheed, ... and **Hadiya Kounsar**. 2024. "Effect of Nano-Urea Based Nitrogen Application on the Growth, Phenology and Yield of Direct Seeded Rice (*Oryza Sativa* L.)". *Archives of Current Research International* **24** (6):385-95. <https://doi.org/10.9734/acri/2024/v24i6796>
4. Jamsheed, B., Bhat, T. A., Jan, B., Saxena, A., Nazir, A., Dar, K. A., Fayaz, S., **Kounsar, H.**, Bhat, A. J., Bashir, S. D. 2023. Impact of site-specific nutrient omission techniques on growth, yield and quality of QPM. *Emergent Life Sciences Research* **9**(2): 186:195 https://www.emergentresearch.org/uploads/38/14882_pdf.pdf
5. Jamsheed, B., Bhat, T. A., Saad, A.A., Nazir, A., Fayaz, S., Eldin, S.M., Jan, B., **Kounsar, H.**, Yaqoob, M., Mir, A. H., Wani, F. J., Al-Tawaha, A. R. M. S., Ali, I., Aljarba, N. H. Al-Hazani, T. M. and Verma, N. 2023. Estimation of yield, phenology and agro-meteorological indices of Quality Protein Maize (*Zea mays* L.) under different Nutrient Omissions in Temperate Ecology of Kashmir. *Journal of King Saud University – Science* **35** (2023) 102808
<https://www.sciencedirect.com/science/article/pii/S1018364723002707>
6. **Manuscript from master's dissertation under review.**

BOOK CHAPTERS

1. **Kounsar, H., et al.** 2023. Overview of Geospatial technologies for Land and Water Resource Management. *Advances in Soil and Water Conservation Engineering*. ISBN: **978-93-58992-68-7**.
2. **Kounsar, H.** and Ahngar, A.T. 2023. Supply Chain Management of Organic Agricultural Products. *Organic Agriculture: Moving Towards Sustainability*. ISBN: **9788119821631**.
3. Jamsheed, B., Ahngar, A. T and **Kounsar, H.** 2023. GIS and Remote Sensing for Land and Water Resource Management. *Advances in Soil and Water Conservation Engineering*. ISBN: **978-93-58992-68-7**.

CONFERENCES AND OTHER PRESENTATIONS

- Presented a seminar on “**Metabolomic Approach to Reveal Heat stress in Wheat**” at division of Agronomy, Faculty of Agriculture, SKUAST-K, 2024
- presented poster on “Performance of Quality Protein Maize under Different Sources and Levels of Zinc” at two days National Seminar on “Healthy Soils for Richer Biodiversity in Northwestern Himalayas”, 2022
- presented a seminar on “**Agricultural Waste Management: resource recovery for efficient farming**” at division of Agronomy, Faculty of Agriculture, SKUAST-K, 2021

ACHIEVEMENTS AND CERTIFICATIONS

- Attended a brainstorming Workshop on “Carbon farming” organized by SKUAST-K, November 2024
- Participant and member of working committee in one-week workshop on “Exploring Millets for Dietary Diversification and Environment” organized by Faculty of Agriculture, SKUAST-K, July 2024
- Qualified TOEFL with a score of 93, June 2024
- Certificate of participation in online skilling course on “Kisan Drone Operator” a course offered by NSDC through Skill India Digital Hub
- one-week Management Development Program (MDP) on “Application of Artificial Intelligence and Machine Learning in Agriculture and Business Management”, 2023
- one-week ESDP Training programme on “Development of skill in Millet production and consumption technology: Self sustainability in millet production and micro-entrepreneurship”, 2023

- One-week advanced ESDP Training programme on “Vermicomposting Technology- A sustainable livelihood option for rural farming community of Kashmir”, 2023
- Participated in a workshop "Pastoralism in Jammu and Kashmir- Issues, challenges and way forward (IYRP 2026)", 2023
- Completed "Root scanning, Non-destructive Biochemical and Proteomics Approaches for Abiotic Stress Tolerance." workshop, 2023
- Participated in "Millets Mahotsav" (virtual mode), 2023

OTHER WORKSHOPS ATTENDED

- 2022: **Business Statistics and Data Analysis using Excel, R and SAS.**
- 2022: Ecological Entrepreneurship (virtual mode).
- 2021: Weather Based Decision Support System for Crop Risk Management.
- 2020: **Genomics Tools and Techniques for Crop Improvement.**
- 2019: Worked as a **team leader** in Rural Agriculture Work Experience Programme.
- Workshop on Computer, Science and English.
- Completed course in ALOHA (Abacus Learning Of Higher Arithmetic).

INTERESTS AND EXTRA CURRICULAR ACTIVITIES

- Member of the Literary Society Club, Biodiversity and Nature Club and Sports Club at SKUAST-K.
- Active volunteer for community agriculture awareness programs, promoting sustainable farming practices among local farmers.
- Enthusiastic trekker and nature photographer, enhancing my appreciation for biodiversity and ecological balance.
- Passionate about mentoring undergrad and grad students in academics, laboratory techniques and data analysis

REFERENCES

1. Prof Parvaze A. Sofi

USDA Norman Borlaug Fellow
 Visiting Scientist Kansas State University
 Visiting Scholar Sustainable Intensification Innovation Lab K State
 Professor & Head (Genetics and Plant Breeding), FOA, SKUAST-Kashmir
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2. Dr Tahir Ahmad Sheikh

Visiting Scientist Clemson University South Carolina U.S
 Assistant Professor, (Division of Agronomy)
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3. Dr Syed Sheraz Mahdi

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 University of Cambridge, UK
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