



Muhammad Nouman Shaukat

Nationality: Pakistani | **Gender:** Male

● ABOUT ME

Early-stage Food Scientist specializing in bioactive compounds, functional foods, and encapsulation. Eager to pursue research opportunities and develop impactful solutions within the dynamic realm of food science and technology.

● WORK EXPERIENCE

1 NOV 2020 – 19 APR 2024 Catania, Italy

DOCTORAL RESEARCHER UNIVERSITY OF CATANIA

- Conducted comprehensive literature reviews on ginger bioactives, elucidating their beneficial aspects and diverse food applications.
- Led a research project aimed at optimizing the processing and drying of ginger to yield high-quality and bioactive-rich ginger products.
- Another research initiative to assess the efficacy of ginger extract in formulating an edible coating for walnut kernels, mitigating oxidation and fungal spoilage during storage.
- Utilized advanced analytical techniques and collaborated closely with interdisciplinary teams to drive experimentation, data analysis, and scholarly publications.

24 JAN 2023 – 10 OCT 2023 Al-Ain, United Arab Emirates

VISITING DOCTORAL RESEARCHER UNITED ARAB EMIRATES UNIVERSITY

- Cutting-edge research in ginger bioactive encapsulation via double emulsion and spray drying methodologies.
- Employed state-of-the-art analytical instruments including FTIR, DSC, sonicator, and Mastersizer for meticulous characterization.
- Innovated novel protein-starch conjugates and optimized pea protein coatings to bolster encapsulation efficacy.

JAN 2018 – DEC 2020 Lahore, Pakistan

ASSISTANT FOOD SAFETY OFFICER PUNJAB FOOD AUTHORITY

- To Develop Food Standards and SOP's
- To Ensure and Enforce Food Safety from Farm to Fork

Business Sector: Government Authority/Food & Beverages

31 MAR 2015 – 30 MAY 2015 Faisalabad, Pakistan

INTERNEE RAFHAN MAIZE PRODUCTS

- Food Product Development and Analysis in R&D
- Food Production Regulation and Management

● EDUCATION AND TRAINING

NOV 2020 – APR 2024 Catania, Italy

INTERNATIONAL PHD IN AGRICULTURAL, FOOD AND ENVIRONMENTAL SCIENCE University of Catania

Field of study Food Science and Technology |

Thesis Comparative evaluation, practical food application and stability improvement through microencapsulation of ginger bioactives



AUG 2015 – SEP 2017 Faisalabad, Pakistan

M.SC. (HONS.) FOOD TECHNOLOGY University of Agriculture, Faisalabad

Final grade CGPA 4.00/4.00 (Cum Laude) |

Thesis Development and Evaluation of Sorghum Flour and Apple Pomace Based Functional Pasta

AUG 2016 – JUN 2017 Faisalabad, Pakistan

POSTGRADUATE DIPLOMA IN FOOD SAFETY AND CONTROLS University of Agriculture, Faisalabad

Final grade CGPA 3.87/4.00

AUG 2011 – JUL 2015 Faisalabad, Pakistan

B.SC. (HONS.) FOOD SCIENCE AND TECHNOLOGY University of Agriculture, Faisalabad

Final grade CGPA 3.71/4.00

● LANGUAGE SKILLS

Mother tongue(s): **PUNJABI**

Other language(s): **ENGLISH | URDU | ITALIAN (BASIC)**

● HONOURS AND AWARDS

2017

Prime Minister Pakistan Laptop Award – Government of Pakistan

2017

Nestle Merit Scholarship – Nestlé Pakistan Limited

2017

University Merit Scholarship – University of Agriculture, Faisalabad - Pakistan

2012

Chief Minister Punjab Laptop Award – Government of Punjab, Pakistan

● CERTIFICATIONS

2024

International Doctor Certificate

2019

FSSC-22000 Food Safety Management Systems Lead Auditor Training Course

2017

Microsoft Office Specialist

● PUBLICATIONS

2024

[Impact of Air-Drying Temperatures on Drying Kinetics, Physicochemical Properties, and Bioactive Profile of Ginger](#)

Foods

Shaukat, Muhammad Nouman, Biagio Fallico, and Akmal Nazir

2023

[Ginger Bioactives: A Comprehensive Review of Health Benefits and Potential Food Applications](#)

Antioxidants

Shaukat, Muhammad Nouman, Akmal Nazir, and Biagio Fallico

2023

Plant-based dairy substitutes: Current scenario and future prospects

Innovations in Agriculture

Ayman Khaliq, Akhilesh Kumar Mishra, Muhammad Nouman Shaukat, Ahmad Rabbani

2023

Glycerol Ginger Extract Addition to Edible Coating Formulation for Preventing Oxidation and Fungal Spoilage of Stored Walnuts

Food Bioscience

Shaukat, Muhammad Nouman, Rosa Palmeri, Cristina Restuccia, Lucia Parafati, and Biagio Fallico

2021

Potential Applications of Food Industrial By-Products in the Dairy Industry.” in Food Waste Recovery: Processing Technologies, Industrial Techniques, and Applications

Nazir, Akmal, Abid Aslam Maan, and Muhammad Nouman Shaukat

● **CONFERENCE/WORKSHOP PROCEEDINGS**

20 FEB 2023 – 21 FEB 2023

INCORPORATION OF GINGER GLYCEROL EXTRACT INTO COATING FORMULATION TO IMPROVE THE OXIDATIVE STABILITY OF WALNUT KERNELS

Muhammad Nouman Shaukat and Biagio Fallico

1st International Conference on Sustainable Approaches in Food and Nutrition Systems (ICSFNS-2023)

3 OCT 2022 – 7 OCT 2022

Efficient extraction, comparative evaluation, effective food application and stability improvement through nano-encapsulation of functional compounds in ginger

Muhammad Nouman Shaukat

4th Joint Meeting of Agriculture-Oriented PhD Programs at Unict, Unifg and Uniud

14 SEP 2021 – 15 SEP 2021

Efficient Extraction, Comparative Evaluation and Shelf Life Study Through Nano-encapsulation of Functional Compounds in Ginger

Muhammad Nouman Shaukat

First Virtual Workshop on the Developments in the Italian PhD Research on Food Science, Technology and Biotechnology

10 DEC 2019 – 11 DEC 2019

Effect of sorghum and apple pomace incorporation on rheological parameters, cooking quality and consumer acceptability of durum wheat pasta

Muhammad Adnan Hafeez, Abid Aslam Maan and Muhammad Nouman Shaukat

30th All Pakistan Food Science Conference and Food & Nutrition Expo

● **CONFERENCES, SYMPOSIUMS AND FESTIVALS**

20 FEB 2023 – 21 FEB 2023

1st International Conference on Sustainable Approaches in Food & Nutrition Systems (ICSFNS 2023)

organized by Khwaja Fareed University of Engineering & Information Technology, Rahim Yar Khan, Pakistan



3 OCT 2022 – 7 OCT 2022

4th Joint Meeting of Agriculture-oriented PhD programs UniCT, UniFG, UniUD

organized by the University of Udine at Paluzza (UD), Italy.

(Oral Presentation)

19 NOV 2021 – 25 NOV 2021

Erasmus+ Youth Exchange Program focused on Child Nutrition titled "An Apple A Day Keeps the Doctor Away"

organized by Hayat Boyu Sağlık Platformu at Aksaray, Turkey.

11 OCT 2021 – 15 OCT 2021

3rd Joint Meeting of Agriculture-oriented PhD programs UniCT, UniFG, UniUD

organized by the University of Foggia at Giovinazzo (BA), Italy.

(Oral Presentation)

14 SEP 2021 – 15 SEP 2021

First Virtual Workshop on the Developments in the Italian PhD Research on Food Science, Technology and Biotechnology

organized by the Department of Agricultural, Food and Forestry Sciences (SAAF) of the University of Palermo, Italy.

(Poster Presentation)

30 MAR 2017 – 31 MAR 2017

International Conference on "Foods of Animal Origin"

organized by NIFSAT at the University of Agriculture, Faisalabad.

1 OCT 2016 – 31 OCT 2016

An activation on "Road to Food Protection & Safety"

organized by Tetra Pak Pakistan.

19 APR 2016 – 19 APR 2016

26th All Pakistan Food Science Conference

organized by NIFSAT at the University of Agriculture, Faisalabad.

9 MAR 2016 – 10 MAR 2016

Nutrition Mela (Festival)

organized by NIFSAT at the University of Agriculture, Faisalabad.

26 NOV 2015 – 27 NOV 2015

Cheese & Exotic Food Festival and International Conference on Opportunities & Challenges in Dairy Industry

organized by NIFSAT at the University of Agriculture, Faisalabad.

12 NOV 2014 – 14 NOV 2014

International Symposium on Technological & Nutritional Aspects of Value Added Dairy Products

organized by NIFSAT at the University of Agriculture, Faisalabad.