

PERSONAL INFORMATION **Kartik Khera**

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Sex Male | Date of birth 09/05/1996 | Nationality Indian

WORK EXPERIENCE

01.06.2024 - Present

Project leader for the project 'Beneficial organisms in fruit growing to reduce the use of pesticides' at Kompetenzzentrum Obstbau-Bodensee (KOB), Ravensburg, Germany (100%)

Plant Protection Department

- Planning and implementation of experiments
- Team coordination
- Monitoring and evaluation
- Producing reports and presenting results

Private Fruit Research Institute

01.09.2021 – 31.05.2024

Research Assistant at Kompetenzzentrum Obstbau-Bodensee (KOB), Ravensburg, Germany (50%)

Post-Harvest Physiology

- Data collection and Analysis
- Documentation and Reporting
- Presenting results for various conferences
- Fruit Analysis in laboratory: HPLC, GC-MS, Maturity and Quality experimentation including Firmness, Sugar, Titrable acidity, Respiration and Ethylene production in fruits after storage.

Private Fruit Research Institute

01.05.2020 – 31.08.2021

Intern at Kompetenzzentrum Obstbau-Bodensee, Ravensburg, Germany

Under Dr. Daniel Neuwald (Head of Department, Post-Harvest Physiology)

- Master thesis on Evaluation of different storage techniques to ensure optimum fruit quality of 'Shalimar' apple fruit.
- Evaluation of Aromatic compounds found in juices using GCMS.
- Optimisation of HPLC (High pressure liquid Chromatography) for sugar and acid profile analysis.
- Maturity and Quality experimentation including Firmness, Sugar, Titrable acidity, Respiration and Ethylene production in fruits after storage.

Private Fruit Research Institute

22.01.2018 - 6.04.2018

Intern at Food Safety and Standard Authority of India (FSSAI)

Under Bhaskar N., Advisor (Quality Assurance)

- Major project on Doping Substances in Food and Food Supplements.
- Field visit inspection with SSAI team at Gujrat and Punjab under the program Food Safety on wheels.

Ministry of Health and Family, Govt. of India

EDUCATION AND TRAINING

17.10.2018 – 01.06.2021

Masters in Environmental Protection and Agricultural Food Production

University of Hohenheim, Stuttgart, Germany

- Post-harvest Technology of Food and Bio Based Products
- Microbiological safety within Feed and Food production chain
- Spatial Data Analysis with GIS
- Food Safety and Quality Chains

01.07.2014 - 01.05.2018

Bachelor of Technology, Food Technology

Amity University of Food Technology, NOIDA, India

- Food Engineering
- Concepts of Food Product Development
- Fruits and Vegetables Processing Technology

PERSONAL SKILLS

Communication skills Foreign Languages

Good Communication skills were developed by studying and working in the international environment.

- **English-** *Proficient*
- **German-** *Intermediate Level*
- **Hindi-** *Mother tongue*

Organizational / managerial skills

- Coordination and execution of World Bank and ICAR funded Project—NAHEP at KOB
(July-August 2023)

The Institutional Development Plan (IDP) is funded by ICAR and World Bank under National Agricultural Higher Education Project (NAHEP). Roles included coordinating with YS Parmar University, India and organizing a visit for 21 days in south Germany for 10 students.

- Coordination and execution of World Bank and ICAR funded Project—NAHEP at KOB
(November-December 2023)

The Institutional Development Plan (IDP) is funded by ICAR and World Bank under National Agricultural Higher Education Project (NAHEP). Roles included coordinating with YS Parmar University, India and organizing a visit for 21 days in south Germany for 10 students.

- Coordinating and Presenting for GIZ Online Lectures on Sustainable and Climate-Smart Horticultural Practices & Current Research Activities
(January-May 2024)

Coordinated an initiative by GIZ (Deutsche Gesellschaft für Internationale Zusammenarbeit) under Green Innovation Project, organizing 23 online lectures by German researchers in agriculture for various Indian universities.

Job-related skills

- Spatial Data Analysis with GIS
- Environmental Modelling (Basics)
- FoSTaC training in Manufacturing- Food Safety Supervisor (Advance)
-Course conducted by Food safety and standard authority of India for young professional on food safety regulations and policies.

Digital skills

- Basics of R program
- Skilled in MS Office

ADDITIONAL INFORMATION

Publications

- Khera, K., Büchele, F., Wood, R.M. et al. Impact of different storage conditions with combined use of ethylene blocker on 'Shalimar' apple variety. *Sci Rep* **14**, 8485 (2024).
<https://doi.org/10.1038/s41598-024-57688-6>
- Khera, K., Thewes, F. R., Büchele, F., Patrudkar, A., Brackmann, A., Hagemann, M. H., Saquet, A. A., & Neuwald, D. A. (2024). Anaerobic metabolism in apple cultivars as affected by storage conditions. *Acta Horticulturae*, 1396, 293-299.
<https://doi.org/10.17660/ActaHortic.2024.1396.40>
- Khera, K., Büchele, F., Thewes, F. R., Wagner, R., & Neuwald, D. A. (2024). Impact of storage conditions on selective volatile compounds in various apple cultivars. *Acta Horticulturae*, 1396, 301-308.
<https://doi.org/10.17660/ActaHortic.2024.1396.41>
- Büchele, F., Khera, K., Thewes, F. R., Kittermann, D., & Neuwald, D. A. (2023). Dynamic control of atmosphere and temperature based on fruit CO₂ production: practical application in apple storage and effects on metabolism, quality, and volatile profiles. *Food and Bioprocess Technology*, 16(11), 2497-2510.
<https://doi.org/10.1007/s11947-023-03079-0>
- Büchele, F., Khera, K., Wagner, R., Thewes, F. R., & Neuwald, D. A. (2023). Interaction between dynamic controlled atmosphere (DCA-CD), 1-methylcyclopropene and elevated temperatures in the long-term storage of organic 'Santana' apples. *Postharvest Biology and Technology*, 204, 112471.
<https://doi.org/10.1016/j.postharvbio.2023.112471>
- Büchele, F., Thewes, F. R., Khera, K., Voegelé, R. T., & Neuwald, D. A. (2023). Impacts of dynamic controlled atmosphere and temperature on physiological disorder incidences, fruit quality and the volatile profile of 'Braeburn' apples. *Scientia Horticulturae*, 317, 112072.
<https://doi.org/10.1016/j.scienta.2023.112072>
- Büchele F, Hivare K, Khera K, Thewes FR, Argenta LC, Hoffmann TG, Mahajan PV, Prange RK, Pareek S, Neuwald DA. Novel Energy-Saving Strategies in Apple Storage: A Review. *Sustainability*. 2024; 16(3):1052.
<https://doi.org/10.3390/su16031052>
- Neuwald, D. A., Thewes, F. R., Büchele, F., Steffens, C. A., Khera, K., Both, V., Panseira-Espíndola, B., & Brackmann, A. (2024). Repeated low oxygen stress on dynamic controlled atmosphere storage of 'Elstar' and 'Nicoter' apples. *Acta Horticulturae*, 1396, 241-248.
<https://doi.org/10.17660/ActaHortic.2024.1396.33>