**Urvi Shah**

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**Summary**

A driven food scientist with demonstrated hands-on Research and Development experience from ideation to bench development to pilot plant and commercialization in a range of technology and application platforms including egg products, snacks, nutritional bars, RTE cereals, batters, dessert sauces, shelf life extension to name a few. Proven expertise in developing and implementing Food Safety Plans. Adaptable and productive, quick learner of new technology, agile problem solver and able to think outside the box.

Equipment and testing: Brix, pH meter, Moisture Analyzer, Water Activity, Chroma Meter, UV-Vis Spectrophotometer, FT-IR, Ultra-Centrifuge, Texture Analyzer, Membrane Filtration, SDS-PAGE, Thin Layer Chromatography, ELISA, Cold Plasma, High Pressure Processing, UV light applications & Panning

**Education**

* **North Carolina State University** (Raleigh, NC)June 2023

Ph.D. Student in Food Science

* **Drexel University** (Philadelphia, PA) Jun 2017

Master of Science in Food Science GPA 3.97

Thesis: Effect of cold plasma treatment on microbial load, color and cuticle in baby kale (*Brassica oleracea*)

* **University of Mumbai** (Mumbai, India)Jun 2014

Bachelor of Engineering in Biotechnology

Senior Project: Effect of oxidation of edible oils on redox biology of *Daphnia,* amulticellular crustacean

**Employment Experience**

**Farther Farms** (Rochester, NY)

Startup with platform technologies to transform food safety and food products

Quality and Regulatory Associate Oct 2019 – July 2020

* Compose and execute food safety plans and guide employees in following SOPs
* Perform internal audits and inspections of entire facility and equipment
* Perform microbiology and quality testing of raw and finished products and review COAs
* Set up the facility to be in compliance with FDA guidelines for employee workflow, GMPs, PPEs, storage areas, pest control, master sanitation and environmental monitoring programs

**The Sweet Solutions** (Plainfield, IL)

Manufacturer of novel confectionery ingredients serving dessert and baking industries

Quality Manager Dec 2018 – Oct 2019

* Identified FSMA based food safety procedures, designed SOPs and trained the team in Safe Quality Food (SQF)
* SQF Practitioner, food safety team leader, supervised the QA and sanitation team
* Created and implemented allergen management, supplier verification and pathogen environmental monitoring programs
* Conducted internal audits, inspections of raw materials and finished products and defined product specifications

**Rose Acre Farms** (Francesville, IN)

Leading egg producer in the United States providing various types of egg products

Lead Research and Development Technologist Aug 2017 – Nov 2018

* Researched and evaluated new processes and ingredients on the newly developed egg products
* Designed formulas for novel egg products, organized pilot trials and gave recommendations to improve quality
* Trained and led the R&D team for performing water activity, shelf life, texture, moisture and sensory characteristics
* Assisted in developing food safety plans, commercialization and packaging requirements

**Drexel University** (Philadelphia, PA)

Laboratory Manager Jan 2017 – Jun 2017

* Mentored graduate and undergraduate students in Food Analysis class
* Prepared SOPs, maintained inventory and MSDS manual
* Investigated research protocols of internal research groups and ensured laboratory compliance with EHS regulations

Teaching Assistant Sept 2016 – Dec 2016

* Instructed and gave presentations to graduate and undergraduate students in Food Microbiology laboratory
* Developed lab handouts, conducted demo sessions, evaluated student performance and supervised in writing scientific reports
* Prepared special media, reagents, solutions and followed GLP during lab sessions

**Philadelphia Public Health Laboratory** (Philadelphia, PA)

Laboratory intern Jun 2016 - Sept 2016

* Analyzed microbial load in food, milk and recreational pool samples, recorded data and interpreted results
* Handled the incoming and outgoing of samples for labeling, storage and disposal

**Conference Proceedings and Publications**

1. Shah U., Ranieri P., Zhou Y., Schauer C., Miller V., Fridman G., Sekhon J. (2018). Effects of cold plasma treatments on spot-inoculated *Escherichia coli* O157:H7 and quality of baby kale (*Brassica oleracea*) leaves. Innovative Food Science & Emerging Technologies.
2. Shah U., Sekhon J., Schauer C., Ranieri P., Miller V., Fridman A., Fridman G. (2017). Effect of cold plasma treatment on microbial load, color and cuticle in baby kale (*Brassica oleracea*). United Scientific Group, International Conference on Food, Chemistry and Technology
3. Shah U. (Presenter), Sekhon J., Schauer C., Ranieri P., Miller V., Fridman A., Fridman G. (2017). Effect of cold plasma treatment on microbial load, color and cuticle in baby kale (*Brassica oleracea*). Drexel University Graduate College, Drexel Emerging Graduate Scholars Conference
4. Bhilare A., Bhagat A., Jain N., Karia B., Sharma S., Shah U. (2013). Plant Whisperer. International Journal of Agriculture and Food Science Technology.

**Awards and Certifications**

* PCQI Certified (Nov 2018)
* HACCP Certified (Jun 2018)
* IFT Travel Scholarship (Jun 2017)
* PMCA Student Outreach Program Scholarship (Apr 2017)
* Philadelphia IFT Scholarship (Apr 2016 & Apr 2017)
* Serve Safe Food Protection Manager Certification (Oct 2016 – Oct 2021)
* Dean’s Fellowship from Drexel University (Sept 2015-Dec 2016)
* Analysis and Applications of Flavors in Foods and Beverages, CSIR-CFTRI (Jun 2015)

**Professional Affiliations**

* IFT (Institute of Food Technologists) Jan 2016 – Present

**Volunteer Experience**

* IFT 2020 (Technical Research Paper Abstract Reviewer – Quality Assurance Division) Dec 2019 – Jan 2020
* IFT Chicago Section Golf Outing (Volunteer) Aug 2019
* Philly Farm and Food Fest (Volunteer) April 2016
* IFT Philadelphia Section (Volunteer) Oct 2015
* Engineering in Medicine and Biology Society Student Chapter at TSEC, Mumbai (Treasurer) Jan 2012 – Dec 2012