Shraddha Karanth

ShraddhaKaranth.Github.io || shraddha [DOT] karanth [AT] gmail.com

EDUCATION

UNIVERSITY OF MARYLAND
PhD in Food Science-Dec 2021
College Park, MD | GPA 3.89
Agriculture and Natural Resources

LUND UNIVERSITY
MS in Biotechnology-Jan 2014
Lund, Sweden | GPA 3.5
Lunds Tekniska Hogskola

VISVESVARAYA TECH. UNI.
BE in Biotechnology-Jun 2011
Bengaluru | 1st Class w Distinction.
Dayananda Sagar College of Engg.

SCHOLARLY PROFILE

Google Scholar
LinkedIn

EXPERTISE

Food Microbiology
Clinical Research
Data Analysis
Scientific Communication
Whole Genome Sequencing
Machine Learning (Passable)

RELEVANT SKILLS

CORE COMPETENCIES
• Data analysis
• Scientific writing
• Clinical research
• Team leadership
• Grant writing

GENAI CERTIFICATIONS
• Automated Report Generation Using Generative AI (Coursera)

OTHER CERTIFICATIONS
• Whole Genome Sequencing Certification : JIFSAN
• Food Safety Preventive Controls Alliance PCQI Certification
• Programming for Everybody: U. Michigan (Coursera)

DETAILS

Citizenship: India
Residency: New York City, USA
Visa Sponsorship Needed: **NO**

RESEARCH PRODUCTIVITY IN A NUTSHELL

- Total Papers Published: 13 (5 as first author)
- Total Book Chapters: 2 (both first authored)
- Total Citations: 531 (241 citations in 2025 alone)
- Total International Research Presentations: 27 (including 2 invited talks)
- Total Grant Funding Secured: USD 700,000.
- Total Academic Awards Won: 15

EXPERIENCE

UNIVERSITY OF MARYLAND | Post-doctoral researcher
Jan 2022 - Jun 2024 | College Park, MD

- Used novel statistical and ML models to analyze genomic data for food safety.
- Mentored and managed 8 graduate and undergraduate students
- Communicated research results to diverse stakeholder groups

UNIVERSITY OF MARYLAND | Research & Teaching Assistant
Aug 2016 - Dec 2021 | College Park, MD

- Lead teaching assistant in 4+ food safety-related courses (300+ students).
- Won multiple school and university-level research awards.

CACTUS GLOBAL | Academic research editor
Jun 2014 – Jul 2016 | Bengaluru, India

- Provided scientific editing services for academic publications.
- Disciplines covered: Microbiology, Immunology, Molecular biology, and Biotechnology

GRADUATE RESEARCHER | Graduate Research Assistant
Jul 2013 – Dec 2013 | Lund, Sweden

- Researched the immunology of chronic inflammation related to type 1 diabetes
- Gained advanced immunobiological skills, including in imaging, flow cytometry, time lapse photography, and immunoflourescence

HIGHLY CITED PUBLICATIONS

Linking microbial contamination to food spoilage and food waste: The role of smart packaging, spoilage risk assessments, and date labeling. Frontiers in Microbiology, 2023 || Citations: 243 (as of Sep 2025)

Importance of artificial intelligence in evaluating climate change and food safety risk. Journal of Agriculture and Food Research, 2023 || Citations: 62 (as of Sep 2025)

A Machine Learning Model for Food Source Attribution of Listeria monocytogenes. Pathogens, 2022 || Citations: 37 (as of Sep 2025).

Machine learning-based predictive modeling to identify genotypic traits associated with Salmonella enterica disease endpoints in isolates from ground chicken. LWT, 2022 || Citations: 32 (as of Sep 2025)

SELECT AWARDS

2023	Society for Risk Analysis	Best Poster Award
2022	Uni. of Maryland	Outstanding Graduate Student Award
2021	Society for Risk Analysis	Student Merit Award
2019	Uni. of Maryland	Dean's Fellowship