

# Arousha Ahmadi

Doctor of Veterinary Medicine (DVM)

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 Tehran, Iran

## Profile

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Veterinary professional with research experience in microbial ecology, fermentation systems, and host–microbe interactions. Trained in controlled ecosystem experiments, microbial community monitoring, and biochemical response analysis. Interested in graduate research on gut microbiome ecology, microbial symbiosis, and diet- or environment-driven shifts in microbial community function.

## Education

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### DVM, Doctor of Veterinary Medicine

2018–2025

*Shahid Bahonar University of Kerman*

GPA: 18.34/20; Ranked 1st in entering cohort (2018)

- Thesis: *Innovative application of iron-enriched Saccharomyces boulardii in yogurt fortification.*
- Thesis defended with distinction; included extensive chemical and microbial tests on antioxidant activity and lipid oxidation.

## Research Experience

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### Thesis Researcher — Probiotic Dairy Fortification

2023–2025

*Department of Food Hygiene, Shahid Bahonar University of Kerman*

- Designed and executed a 21-day controlled fermentation ecosystem to study microbial community stability under nutrient and iron-modulated environments.
- Investigated ecological interactions among *S. boulardii*, *L. acidophilus*, *Bifidobacterium*, and *S. thermophilus*, quantifying population dynamics, competitive resilience, and community shifts.
- Assessed microbial metabolic responses to environmental stressors using DPPH, TBARS, ferrozine iron assay, and colorimetric profiles (CIELAB L\*a\*b\*).
- Maintained and monitored microbial viability across storage conditions (7.9–8.4 log CFU/mL), evaluating ecological stability and absence of contaminants (coliforms, molds).
- Analyzed ecosystem behaviour in relation to acidity, pH, syneresis, and techno-functional properties to interpret microbe–environment interactions.
- Methods included pour-plate enumeration, Gram staining, fermentation system management, and statistical modelling via ANOVA ( $p < 0.05$ ).

## Research Interests

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- Gut microbial ecology and host–microbe interactions
- Evolution and adaptation of microbial communities
- Diet- and environment-driven modulation of microbial ecosystems
- Microbial metabolism, cross-feeding, and community resilience
- Translational microbiome science

## Professional Experience

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### Scientific Liaison (Veterinary Products)

2025–Present

## *Pilvarad Co., Tehran*

- Provide scientific and technical support for veterinary biologicals and vaccines; advise clinicians and key clients.
- Prepare brochures, slide decks, and technical content; deliver product briefings and training sessions.
- Liaise with regulatory and R&D teams; collect post-market data for continual improvement.

## **Veterinary Internship**

2023–2024

### *Specialized Veterinary Hospital, Shahid Bahonar Univ. of Kerman*

- Assisted in diagnostic and surgical procedures for both small and large animals.
- Performed and interpreted clinical laboratory tests; contributed to case discussions and post-op care.

## **Clinical Assistant**

2023

### *Dr. Malakan Clinic, Nowshahr*

- Assisted in surgeries and laboratory diagnostics for companion and farm animals.
- Prepared biological samples for microbiological and biochemical testing.

## **Clinical Trainee**

2022

### *Dana Veterinary Clinic, Kerman*

- Supported diagnostic testing and hygiene procedures under veterinary supervision.
- Participated in animal health education and public awareness initiatives.

## **Selected Coursework (relevant & high marks)**

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- Clinical Practice in Central Diagnostic Laboratory (20.00/20)
- Food Industries of Animal, Poultry, and Aquatic Origin (20.00/20)
- General Bacteriology (20.00/20)
- Practical Biochemistry (20.00/20)
- Hygiene, Nutrition, and Management of Small Animals (20.00/20)
- Metabolic and Nutritional Deficiency Diseases (20.00/20)
- Veterinary Medicine and Public Health (19.73/20)
- Milk Hygiene and Dairy Industry (19.50/20)
- Meat Hygiene and Inspection (19.34/20)
- Chemical Quality Control and Hygiene of Food Products (19.10/20)

## **Publications & Presentations**

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- A. Ahmadi, “Antibacterial activity of dromedary camel milk fermented with probiotics against some pathogenic bacteria,” *Journal of Veterinary and Comparative Biomedical Research*, 2024, Study on non-heated probiotic-fermented camel milk (N-PFCM) and antibacterial properties [Published]
- A. Ahmadi, “The role of *Saccharomyces boulardii* in promoting human immunity,” in *2nd Congress of Infection and Immunity*, Conference presentation, 2023 [Conference]
- A. Ahmadi, *Septicemia due to umbilical cord infection in a calf: A case report*, Persian-language case report, 2024 [Case report, Persian]
- Ahmadi, A. (2024). *Rabies case study in domestic cats*. Presented at the **National Feline Congress on Internal Medicine and Surgery**, Shiraz, Iran. [Conference]
- Thesis: *Innovative application of iron-enriched Saccharomyces boulardii in yogurt fortification*. [Defended with distinction]

## Workshops & Certifications

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- Emergency and Trauma Medicine (Shahid Bahonar University of Kerman)
- Basics of Laser in Surgery: From Incision to Repair
- Introduction to Wildlife Veterinary Medicine and Zoo Animal Care
- Equine Farriery Workshop
- **2nd National Congress on Infection and Immunity** (Shiraz University, Faculty of Veterinary Medicine)
- **National Feline Congress on Internal Medicine and Surgery** — presented rabies case study
- Red Crescent Volunteer Training (Iranian Red Crescent Society)

## Skills

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- Microbial ecology: population dynamics, community stability, environmental modulation of microbial behaviour.
- Gut–microbe analog systems: modelling microbial responses to nutrient, oxidative, and pH stressors.
- Laboratory microbiology: culture-based enumeration, anaerobic handling basics, PCR, staining, contamination monitoring.
- Metabolic and biochemical assays: DPPH, TBARS, ferrozine iron assay, titratable acidity, pH, and colorimetry (CIELAB).
- Experimental design for ecological studies: treatment structure, community monitoring, longitudinal sampling.
- Data analysis: ANOVA, regression, ecological interpretation of time-series microbial data (Python, SPSS, Excel).
- Scientific communication and interdisciplinary collaboration.

## Professional Memberships

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- Member, Iranian Veterinary Association
- Member, Student Association for Exotic Animal Medicine

## Language Competence and Test Scores

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Persian: Native    English: Advanced

IELTS To Be Taken in Feb 2026	Overall	Reading	Writing	Listening	Speaking
Score (Mock Scores)	7.0	7.5	6.5	7.5	7.0

## References

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Name	Email	Position & Organization
Dr. Hadi Ebrahimnejad	<a href="mailto:ebrahimnejad.email@gmail.com">ebrahimnejad.email@gmail.com</a>	Associate Professor of Food Hygiene, Faculty of Veterinary Medicine, Shahid Bahonar University of Kerman
Dr. Mohammad Khalili	<a href="mailto:mdkhalili1@yahoo.com">mdkhalili1@yahoo.com</a>	Professor of Pathobiology, Faculty of Veterinary Medicine, Shahid Bahonar University of Kerman