

**Gopi Yalavarthi**  
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**Career objectives:**

With a strong foundation of conceptual skills and knowledge gained through my education, I am dedicated to achieving excellence and driving positive change within the industry. I am excited to be part of a team that shares the same vision and works together to make a lasting impact in the world of science.

**Current position: 2022 - 2024**

M.S in Animal Science – University of Connecticut (UConn),  
Graduate Research Assistant - University of Connecticut  
Graduate Teaching Assistant - University of Connecticut

**Educational background: 2014 - 2019**

B.V.Sc & A.H, Bachelor of Veterinary Science and Animal Husbandry (Equivalent to DVM)  
College of Veterinary Science and animal husbandry, Mhow.  
Nanaji Deshmukh veterinary science university, Jabalpur, INDIA.

**Current research work:**

**Currently working on equine gut microbiome in UConn, Animal Science Department**

1. Identifying a role for the gut microbiome in mediating host response to parasitic infections and overall health could eventually result in effective preventive and control strategies in horses.
2. Molecular detection of *Strongyloides* species present in New England, USA.

**Past research experience:**

I was involved in two research works which were going on in department of veterinary public health, Gannavaram, about

1. Prevalence of Beta lactamase producing Shiga Toxigenic E. coli in milk & milk byproducts and diarrheal samples.
2. Prevalence of Aeromonas hydrophila and Bacillus Cereus in different meats.

**Internship:** 06/10/2023 – 08/11/2023 (summer)

**Biomere Biomedical Research Models, Inc. Massachusetts – USA.**

- Handling of NHP's and veterinary inspection.
- Shadowing of PKPD studies, NHP necropsies, Anesthesia monitoring.
- Served as a Research Associate Level 1.
- Engaged in research involving various laboratory animals and non-human primates (NHPs).

### **Relevant scientific skills**

**Molecular techniques:** RNA isolation, purification, DNA extraction, PCR (q-PCR), RT PCR, gene sequencing, gene expression analysis, sanger sequencing, gel electrophoresis, western blotting, ELISA.

**Microbiology:** Flow cytometry, antimicrobial susceptibility tests, bacterial identification, media preparation, culturing, and isolation of microorganisms.

**Cell culture:** Mammalian cell culture, cell line establishment, cell authentication and quality control, cryopreservation.

**Data analysis:** Proficient in R language for statistical modeling, data analysis, and visualization.

**Computer skills:** MS Office (Word, Excel, PowerPoint), Adobe photoshop.

### **Limited proficiency:**

- Electron Microscopy, Immunoelectrophoresis, radioimmunoassay, Next-Generation Sequencing (NGS), Bioinformatics Software.
- Studying sequence-based microbial community analysis course, gaining expertise in analyzing and interpreting microbiome data to understand microbial diversity and interactions in various environments.

### **Professional work experience:**

- Veterinary Officer, Sangam Milk Producers Company Limited, August 2019 - July 2022.
- Special Officer - Vaccine Production & Health Enhancement - July 2019.
- Worked on various projects related to infectious diseases, immunity, and vaccine development - June - 2019
- Collaborate with fellow students and faculty members on research and academic projects.

### **Research grant proposals:**

- Impact of a chamomile dried flowers feed additive on stress levels, behavior, and alterations in the gut microbiome in horses in training.
- Cross-talk between gut microbiome, hormones, and metabolic parameters across different seasons in equine.
- Impact of a chamomile dried flower feed additive on stress levels and alterations in the gut microbiome in pregnant and working horses.

### **Awards:**

- Top 5 finalist for the 2023 Lallemand Forward Scholarship (USA and Canada).
- Best veterinary practitioner of the year - 2021.

- IPA (Indian Pharmaceutical Association) fellowship - 2018.
- 1<sup>st</sup> prize in National E - Quiz competition on microscopic anatomy - Mathura University - 2016.

### **Workshops - training programs and webinars attended**

- Introduction to Bioinformatics Tools for Life Science Research- conducted by BRTC, Trivandrum during 14th-15th January 2019.
- Recent developments in diagnostics with special reference to detection of the Zoonotic pathogens- conducted by Nagpur Veterinary College on 25th feb, 2019.
- Participated in the World Milk Day Quiz and Workshop - 2020 Organized by Department of Microbiology, Vivekananda College of Arts and Sciences for Women, Tiruchengode - 637205, Tamilnadu, India.
- “An Insight to Research Proposals, Statistical Techniques and Intellectual Property Rights” national workshop organized by College of Veterinary Science and Animal Husbandry, Mhow from 26 to 28 June 2020.
- Participated in National Webinar on Zoonoses organized on the occasion of World Zoonoses Day - 2020, from 1st to 7th July 2020 organized jointly by Veterinary College Hassan & Hassan Veterinary College Alumni Association.
- Participated in two days national webinar on Covid -19: Immunopathology, Clinical Manifestations and Therapeutic Measurements conducted on 30th September and 1st October 2020.
- Participation In Online National Webinar On “Lumpy Skin Diseases in Animals”, Dated: 11/07/2020.

### **Licenses and memberships:**

- Veterinary Council of India.
- Andhra Pradesh Veterinary Association.
- Arabian Horse Association.
- Poultry Science Association.
- American Quarter Horse Association.

### **Academic services, social activities and achievements:**

- Treasurer - Graduate student senate, University of Connecticut, 2023-2024.
- Completed NCC ‘C’ and ‘B’ certificate with ‘A’ grade, also hold the rank of under officer in 2 MP R&V SQN, Mhow.
- As an equestrian, achieved gold medal in republic day camp (RDC) 2018, in Delhi and got 3 gold and 2 silver and 1 bronze medal in national level competition held in Indore and participated in PRIME MINISTER REALLY on horseback.
- An active member of ROTRACT club organization, Mhow joined in 2016 and appointed as director in 2017-18 and joint secretary in 2018-19.

The above-mentioned information is true to the best of my knowledge.

Gopi Yalavarthi

## REFERENCES:

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