

PREMIKA AMUDHAN

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EDUCATION

Cornell University

Master of Public Health, Concentration in Infectious Diseases Epidemiology

Sri Ramachandra Institute of Education and Research

Bachelor of Science (Hons) Medical Microbiology and Applied Molecular Biology

Ithaca, New York

Expected May 2026

Chennai, India

July 2023

SKILLS

Technical: GIS Mapping, Diseases Modelling, Data Management, Protocol Development, Good Clinical Practice (GCP) and IRB Submissions, HIPAA Compliance, Biostatistics, Epidemiological modelling.

Public Health Practice, Program Evaluation, Communication: Infection prevention and control, vaccine advocacy, emergency preparedness, health risk communication, M&E framework development, grant writing, scientific reporting, stakeholder engagement, accessibility services, administrative coordination, confidentiality handling.

Programming Languages: STATA, Python, R

Tools: QGIS, GraphPad Prism, REDCaps, Excel, EpiInfo, Tableau, Microsoft Office.

RELEVANT EXPERIENCE

Shot@Life Campaign, United Nations Foundation,

Shot@Life Champion

Washington, D.C.

Feb 2025 – Present

- Advocated for global vaccine equity by engaging with congressional representatives during the 2025 Shot@Life Summit in Washington, D.C., emphasizing U.S. support for Gavi and international immunization.
- Shared personal experience tackling antimicrobial resistance in India to raise awareness of the interconnectedness of global health challenges.
- Coordinated local outreach initiatives to mobilize community support for immunization funding and equitable vaccine access.

Cornell University

Student Disability Services - Proctor (*Part time*)

Ithaca, NY

Aug 2024 – Present

- Maintain academic integrity by overseeing exam sessions for students requiring accommodations
- Manage and implement accommodations including extended time, distraction-free settings, and adaptive technology
- Coordinate exam logistics with faculty and SDS staff to ensure compliance with institutional policies
- Create a welcoming and accessible environment that supports academic success for all students

Vishwa Management Services

Monitoring and Evaluation Analyst (*Hybrid*)

Chennai, India

Oct 2023 – Oct 2024

- Designed and maintained performance dashboards to translate infrastructure project data into actionable insights across telecom, civil, and electrical sectors.
- Developed and automated Key Performance Indicator frameworks using Excel and Python to visualize compliance gaps and operational performance.

Centre for Engineered Therapeutics, Harvard Medical School

Research Assistant

Boston, MA

May 2023 – Oct 2023

- Led development of calcium phosphate-based orthopaedic materials and 3D cell culture models to study bone cell interactions, applying experimental design, performance testing, and cross-disciplinary literature analysis to optimize therapeutic potential.
- Received honorable mention for research on microfluidics and bone microenvironment systems, recognizing innovation in experimental design and presentation.

Sri Ramachandra Institute of Higher Education and Research

Library Assistant

Chennai, India

Aug 2019 – Jun 2022

- Assisted with shelving and organizing biomedical journals, theses, and course reserves in the central library
- Supported circulation desk staff by checking in returned books and preparing them for reshelfing
- Maintained clean, orderly shelves by shifting and realigning materials based on cataloging system

RESEARCH PUBLICATION

- Antony, T., Senthilnathan, Y., Madhavakumar, R., Amudhan, P., Venkataraman, S., Rally, S., Pitani, R. S., & Arumugam, I. (2024). Comparative Evaluation of Colistin-Susceptibility Testing in Carbapenem-Resistant *Klebsiella pneumoniae* Using VITEK, Colistin Broth Disc Elution, and Colistin Broth Microdilution. *Cureus*, 16(7), e65796. <https://doi.org/10.7759/cureus.65796>