

# PREMIKA AMUDHAN

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## EDUCATION

### Cornell University

Master of Public Health, Concentration in Infectious Diseases Epidemiology

Ithaca, New York

### Sri Ramachandra Institute of Education and Research

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

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,

Washington, D.C.

#### Shot@Life Champion

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

Ithaca, NY

#### Student Disability Services - Proctor (Part time)

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

Chennai, India

#### Monitoring and Evaluation Analyst (Hybrid)

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

Boston, MA

#### Research Assistant

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

Chennai, India

#### Library Assistant

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 cataloguing 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>