

# MAHATI RAMACHANDRA

Scientific Illustrator

## CONTACT

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## EDUCATION

### Master of Science in Medical Microbiology

London School of Hygiene and Tropical Medicine | London, UK | September 2023

- Distinction, GPA 4.58/5.0

### Postgraduate Diploma in Advanced Studies and Research in Biology

Ashoka University | Sonapat (greater New Delhi area), India | March 2022

- GPA 3.53/4.0

### Bachelor of Science in Biology

Ashoka University | Sonapat, India | March 2021

- Magna cum laude, GPA 3.85/4.0, dean's list for 5 semesters

## SKILLS

- Adobe Illustrator and Procreate
- Data visualization
- Diagram Illustrations
- Written and oral science communication
- Mural painting

## WORK EXPERIENCE

### Scientific Illustrator

April 2024 - Current

The END fund | New York, USA (Remote)

- Illustrated over 30 designs focused on six neglected tropical diseases (NTDs) for multiple platforms, including the organisation's website, social media, and online articles.
- Conducted in-depth research by referencing journal articles on the NTDs to ensure scientific accuracy of all illustrations.
- Collaborated closely with science communicators and social media teams to revise and refine designs, ensuring they met scientific goals while maintaining accurate and respectful cultural representation and aesthetic standards.

### Scientific Illustrator

September 2023 - January 2024

London School of Hygiene and Tropical Medicine (LSHTM) | London, UK

- Digitally illustrated 11 pieces of artwork showcasing scientific phenomena, including the malaria life cycle and a collaboration featuring fluorescence microscopy images of *T. cruzi* taken by Dr. Archie Khan, for display in the school classrooms.
- Recruited and interviewed painters, and led the team to execute a self-designed mural on a classroom wall.
- Organised a science art exhibition on January 19th to display all my artwork and the mural by coordinating with print and frame vendors, creating labels and descriptions, planning and setting up the exhibition layout, and marketing the event through posters and digital platforms.

### Demonstrator

September 2023 - December 2023

Core bacteriology and virology module | LSHTM | London, UK

- Taught laboratory techniques to 14 students, including gram staining, microscopy, and molecular/biochemical identification of bacteria and viruses.
- Provided individual support by answering questions and clarifying complex scientific concepts during sessions.
- Prepared lab materials, managed infectious waste, and maintained equipment and supplies for smooth lab operations.

### Co-founder and Illustrator

January 2020 - January 2023

ArtiVerse | Sonapat, India

- Co-founded ArtiVerse, an inclusive science-art communication initiative.
- Created simple illustrations to communicate complex scientific concepts through social media platforms such as Instagram and Twitter.
- Created CRISPR-Cas9 diagrams for a textbook published in Springer Nature.
- Designed and sold science-themed merchandise on stickers and postcards to the students of Ashoka University.
- Illustrated scientific research conducted at the university and organized a science art exhibition to display the artwork.

# RESEARCH

## ○ Postgraduate thesis

June 2023 - September 2023

LSHTM | London, UK

- Initiated a research study to conduct a bioinformatic and phenotypic analysis of *Campylobacter jejuni* isolates from poultry production lines in low-middle-income countries.
- Assembled, annotated, and identified key virulence and antimicrobial-resistant genes in 26 *Campylobacter* genomes using bioinformatics tools such as Trimmomatic, SPAdes, ABRicate, Prokka, and Artemis by executing them through bash programming.
- Performed phenotypic tests such as measuring growth curves, performing motility assays, and antimicrobial susceptibility testing for the 26 *Campylobacter* isolates.
- Authored a 10,000-word dissertation including research summaries, statistical analysis and data visualization.

## ○ Research Assistant

January 2022 - May 2022

Ashoka University LSS Lab | Sonapat, India

- Participated in an independent study module by conducting a literature review of current immune responses and circulating immune biomarkers in the peripheral blood of breast cancer patients.
- Tabulated and analyzed current trends correlating all known immune biomarkers with disease prognosis and clinical outcome.
- Actively participated in research meetings with the research mentor, presented research material and engaged in discussions to contribute insights to the team.

## ○ Undergraduate thesis

January 2021 - March 2022

Ashoka University apLab | Sonapat, India

- Initiated a research study to understand the role of the gelsolin protein in the rare genetic disorder AGel Amyloidosis, using *C. elegans* as a model organism.
- Compiled a database of 2000 rare genetic disorders by researching and identifying the affected gene in each case.
- Conducted gene and protein analysis using bioinformatic tools such as AlphaFold, SWISS-MODEL, and BLAST and optimized the RNAi protocol for gene silencing in *C. elegans*.
- Participated in weekly team meetings and journal clubs to disseminate results and key findings.
- Authored a 4000-word dissertation to communicate research findings in the form of summaries, comprehensive tables, and concise visuals.

# INTERNSHIPS

## The International Society for Neglected Tropical Disease | London, UK

February 2024 - April 2024

- Acquired skills related to different forms of science communication including social media and journal articles.
- Performed tasks such as conducting interviews with skilled researchers in the field of neglected tropical disease.
- Co-organized an Art in Science session for the 2024 ISNTD festival, spoke as a panelist and presented a self-illustrated dengue infographic.

## nSmiles | Bangalore, India

June 2020 - August 2020

- Wrote and customized information, wording, tone and voice to cater to different target audiences for the mental health app and website named Student Success.
- Revised and edited written material, incorporating feedback and changes devised during team meetings.
- Presented and proposed different methods of communication and layouts for presenting the written material.

# REFERENCES

## Kerry Gallo

Principal Writer and Strategist  
Hyphal Consulting | Seattle, US

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