### MANUSHI WELANDAWE

As a statistician and data scientist, I focus on building fast, robust methods that bridge the gap between theory and real-world data challenges. My work combines scalable Bayesian inference, stochastic optimization, and practical modeling tools to accelerate scientific discovery and decision-making across different fields. I'm passionate about creating solutions that are both statistically sound and computationally efficient.

### **P** EXPERIENCE

#### Present | 2020

#### Graduate Research Fellow Boston University

OBoston, MA

- Developing novel diagnostics for detecting stationarity in variational and Bayesian inference contexts
- Developed a robust framework for reliable variational inference with convergence diagnostics and variational approximation assessment

### 2023

#### Senior Teaching Fellow Boston University

Soston, MA

 Instructor for MA 214: Applied Statistics, providing instruction and hands-on support to students; evaluated and graded final group projects to assess applied statistical analysis skills

#### 2022

#### NSF-MSG Intern Argonne National Laboratory

• Lemont, IL

 Investigated theoretical and empirical properties of gradient estimators in zerothorder/derivative-free stochastic optimization

# 2021

#### Graduate Teaching Fellow Boston University

Soston, MA

- · Led 3 discussions each week for graduate level course MA 585 Time series and Forecasting
- · Led 5 discussions each week for MA113 Elementary Statistics
- · Led 4 discussions each week for MA116 Statistics II

## 2019

### **Graduate Researcher** University of Rhode Island

♥ Kingston, RI

 Designed a Bayesian mixed-effects zero-inflated beta regression model for longitudinal microbiome data with missing-at-random patterns, validated via simulations and applied to real-world datasets

## 2019

#### Graduate Administrative Assistant University of Rhode Island

♥ Kingston, RI

- Organized and conducted workshops on R, SAS, and SPSS for the University of Rhode Island (URI) faculty, graduate students, and undergraduate community
- · Provided statistical consultation to local researchers on projects utilizing R, SAS, and SPSS

#### 2017

#### Graduate Teaching Assistant University of Rhode Island

♥ Kingston, RI

- Led 5 discussions per week for STA 220 Statistics in Modern Society
- Graded final semester exams for STA 308 Introductory Statistics

#### 2017

#### Junior Analyst Peppercube Consultants (Pvt.) Ltd.

Sri Lanka

• Conducted statistical analysis for market research to gain insights in existing or newly developed products and services

#### 2016

#### **Teaching Assistant** University of Sri Jayewardenepura

Sri Lanka

Led discussions, graded homework, and proctored final semester exams for STA 122/221
Data Analysis I/II

#### **CONTACT**

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manushiw.com

in manushiwelandawe

#### **EDUCATION**

PhD., Statistics Boston University Expected 2025

MS., Statistics University of Rhode Island 2017 – 2019

BS., Statistics University of Sri Jayewardenepura 2011 – 2015

#### LANGUAGE SKILLS

Python	
R	
Julia	
Stan	
SQL	

# AWARDS AND SERVICES

Mathematical Science Graduate Internship National Science Foundation (2022)

Reviewer

AISTATS (2025, 2024) and NeurIPS (2024)

Mentor

Undergraduate and Graduate Students

#### **INTERESTS**

**%** Hiking

**Swimming** 

**☆** Yoga

